

PROPOSTA FINANCEIRA

AO
MUNICÍPIO DE COTIPORÃ-RS
PREGÃO ELETRÔNICO Nº 0008/2021
 A/C PREGOEIRO OFICIAL

Lote	Item	Qtd	UND	Marca	Modelo	Descrição do Produto	Valor Unitário	Valor Total
29	29	10	UND	HP	240 G7 (i3-1005G1) + Care Pack U9BA7E	Descrição do Produto Conforme Anexo de Referência deste Edital ou Anexo de Referência contido nesta proposta.	R\$ 5.295,00	R\$ 52.950,00
30	30	10	UND	HP	240 G7 (i5-1035G1) + Care Pack U9BA7E	Descrição do Produto Conforme Anexo de Referência deste Edital ou Anexo de Referência contido nesta proposta.	R\$ 6.250,00	R\$ 62.500,00

Preços cotados para entrega e instalação conforme edital;

1. **Prazo de entrega: Conforme Edital;**
2. **Período de Garantia e Assistência Técnica Conforme Edital;**
 - a. **A Verlin dispõe de Serviço 0800 para chamadas gratuitas, para fins de esclarecimentos técnicos e abertura de atendimentos e chamados através do número 0800 887 8800.**
3. **Prazo de pagamento conforme termos do edital;**
4. **Cumpra-nos informar-lhes ainda que examinamos os documentos da licitação, inteirando-nos dos mesmos para elaboração da presente proposta. E em consonância aos referidos documentos, declaramos:**
 - a. **Que estamos cientes e concordamos com os Termos do Edital em epígrafe e das cláusulas da minuta do contrato em anexo;**
 - b. **Que o prazo de validade da presente proposta, contados a partir da data de abertura do conjunto proposta, é de 60 (sessenta) dias ou conforme edital;**
 - c. **Que nos preços apresentados já estão contemplados todos os encargos, principalmente os impostos e ou descontos ou vantagens, e frete para a entrega dos materiais.**
5. **Obs.: O preenchimento da presente proposta acarretará na íntegra conformidade de nossa empresa com todas as características do objeto e exigências constantes no edital.**
6. **Contas Bancárias**
 - a. **Banco do Brasil, Agência: 2969-6, Conta Corrente: 19919-2;**
 - b. **Caixa Econômica Federal, Agência: 3060, Conta Corrente: 933-4 OP: 003;**
 - c. **Banrisul, Agência: 0128, Conta Corrente: 06.040764.0-6;**
7. **O responsável pela assinatura do contrato é o representante legal Willian Verlin de Oliveira, CPF: 754.636.012-91, RG: 001244674 SSP/MS, residente na Rua Antônio Michelon, 722 Apto 2, bairro Santa Rita na cidade de Bento Gonçalves/RS.**

Verlin Soluções em TI

Verlin Tecnologia da Informação LTDA (CNPJ: 10.894.828/0001-94)
 Rua Lino Colussi, 123, Vinosul - Bento Gonçalves/RS (CEP 95701-504)
contato@verlin.com.br / www.verlin.com.br - (54) 3451-9505/ 3454-5554



DESCRIÇÃO GERAL DOS ITENS OFERTADOS

ITEM 29

Notebook HP 240 G7

Processador Intel® Core™ i3-1005G1 Cache de 4M, até 3,40 GHz

HP EX900, 120GB, M.2, PCIe, NVMe, Leituras: 1900Mb/s e Gravações: 650Mb/s- 2YY42AA#ABL

Care Pack U9BA7E

QuickSpec: <https://h20195.www2.hp.com/v2/getpdf.aspx/c06550149.pdf>

Datasheet: <https://h20195.www2.hp.com/v2/GetPDF.aspx/4aa7-4090ptl.pdf>

Ark Intel: <https://ark.intel.com/content/www/br/pt/ark/products/196588/intel-core-i3-1005g1-processor-4m-cache-up-to-3-40-ghz.html>

PassMark: <https://www.cpubenchmark.net/cpu.php?cpu=Intel+Core+i3-1005G1+%40+1.20GHz&id=3560>

SSD EX900: <https://ssdhp.com/wp-content/uploads/2018/08/Simplified-Datasheet-for-EX900-M.2-EN.pdf>

DMTF: <https://www.dmtf.org/about/list>

UEFI: <https://uefi.org/members>

NOTEBOOK CORPORATIVO BÁSICO COM AS SEGUINTE CARACTERÍSTICAS MÍNIMAS: OS EQUIPAMENTOS DEVEM PERTENCER À LINHA CORPORATIVA, SEREM NOVOS, SEM USO E ESTAR EM LINHA DE PRODUÇÃO, NÃO SENDO ACEITOS EQUIPAMENTOS DESTINADOS AO USO DOMÉSTICO OU DESCONTINUADOS, APRESENTAR DECLARAÇÃO DO FABRICANTE JUNTAMENTE COM A PROPOSTA, COM EMISSÃO NÃO SUPERIOR A 30 DIAS. **PROCESSADOR** – DEVERÁ POSSUIR 2 NÚCLEOS FÍSICOS, FREQUÊNCIA BASE DE 1.0GHZ, COM CARACTERÍSTICAS E DESEMPENHO EQUIVALENTE OU SUPERIOR AO ÍNDICE DE 5.000 PONTOS REGISTRADO PASSMARK – CPU BENCHMARKS DISPONÍVEL NO SITE [HTTP://WWW.CPUBENCHMARK.NET/CPU_LIST.PHP](http://www.cpubenchmark.net/cpu_list.php). **MEMÓRIA** – DEVERÁ POSSUIR 4GB DE MEMÓRIA DDR4 INSTALADA, OPERANDO A 2.666 MHZ. **UNIDADE DE ARMAZENAMENTO** – DEVERÁ ESTAR INSTALADA INTERNAMENTE AO EQUIPAMENTO, DO TIPO SSD NVME COM CAPACIDADE MÍNIMA DE 120GB DO PRÓPRIO FABRICANTE DO COMPUTADOR OU HOMOLOGADA PELO MESMO, DEVENDO SER APRESENTADO O PART NUMBER DESTES COMPONENTES NA PROPOSTA; **PLACA PRINCIPAL** – A PLACA MÃE DEVERÁ SER DA MESMA MARCA DO FABRICANTE DO EQUIPAMENTO, DESENVOLVIDA ESPECIFICAMENTE PARA O MODELO OFERTADO, NÃO SENDO ACEITAS SOLUÇÕES EM REGIME DE OEM OU CUSTOMIZADAS. CHIPSET DESENVOLVIDO PARA O MERCADO MÓVEL, INTEGRADO AO PROCESSADOR EM UMA ÚNICA PASTILHA, TIPO SOC (SYSTEM ON CHIP). DEVERÁ POSSUIR 2 (DOIS) SLOTS PARA EXPANSÃO DE MEMÓRIA, PERMITINDO A EXPANSÃO PARA 16GB. DEVERÁ POSSUIR CONECTIVIDADE CABEADA NO PADRÃO GIGABIT, SEM FIO NO PADRÃO 802.11AC E BLUETOOTH, AMBOS INTEGRADOS A PLACA MÃE. DEVERÁ POSSUIR UMA SAÍDA PARA CONEXÃO DE VÍDEO NO PADRÃO DISPLAY PORT OU HDMI, NÃO SENDO ACEITA SOLUÇÕES ATRAVÉS DE ADAPTADORES. DEVERÁ POSSUIR 03 (TRÊS) PORTAS USB, SENDO PELO MENOS 2 PORTAS 3.0 OU SUPERIOR. **BIOS** DEVERÁ SER DESENVOLVIDA PELO MESMO FABRICANTE DO COMPUTADOR COM DIREITOS DE COPYRIGHT EM PORTUGUÊS, EM CONFORMIDADE COM AS ESPECIFICAÇÕES UEFI 2.1, COMPROVADA ATRAVÉS DA NOMEAÇÃO DO FABRICANTE NO SITE [HTTP://WWW.UEFI.ORG/MEMBERS](http://www.uefi.org/members), NA CATEGORIA PROMOTERS. AS ATUALIZAÇÕES, QUANDO NECESSÁRIAS, DEVEM SER DISPONIBILIZADAS NO SITE DO FABRICANTE DO COMPUTADOR. **TELA**- DEVERÁ POSSUIR TELA COM TECNOLOGIA HD LED DE 14 POLEGADAS, RESOLUÇÃO DE 1366 X 768 OU SUPERIOR. **MULTIMÍDIA** – DEVERÁ POSSUIR CONTROLE DE VOLUME E ALTO-FALANTES DE SOM ESTÉREO 16BITS INCORPORADO À PLACA MÃE. DEVERÁ POSSUIR CONECTOR (ES) DE ENTRADA E SAÍDA DE ÁUDIO, MICROFONE, E WEBCAM INTEGRADA AO GABINETE. **TECLADO** – DEVERÁ ESTAR EM COM O PADRÃO ABNT-2 PADRÃO PORTUGUÊS BR. **DISPOSITIVO APONTADOR** – SENSÍVEL AO TOQUE (TOUCHPAD) INCORPORADO COM NO MÍNIMO 2 BOTÕES. **FONTE DE ALIMENTAÇÃO** BIVOLT AUTOMÁTICA E BATERIA RECARREGÁVEL DE LÍCIO-ION (LI-ION) DE 3 (TRÊS) CÉLULAS. **SISTEMAS**: DEVERÁ VIR INSTALADO SISTEMA OPERACIONAL WINDOWS 10 PROFESSIONAL 64 BITS OEM, COM LICENÇA DE ATIVAÇÃO ATRAVÉS DA BIOS. GARANTIA, OS EQUIPAMENTOS DEVEM POSSUIR GARANTIA PADRÃO DO FABRICANTE DO COMPUTADOR, POR UM PERÍODO DE 36 (TRINTA E SEIS) MESES E 12(DOZE) MESES PARA BATERIA, COM EXCEÇÃO DE COMPONENTES DE UPGRADE, COM MÃO-DE-OBRA DE ASSISTÊNCIA TÉCNICA E SERVIÇO DE SUPORTE NO LOCAL PARA REPOSIÇÃO E REPARO DE PEÇAS DANIFICADAS POR PROBLEMAS DE FABRICAÇÃO. NÃO SERÃO ACEITAS ADAPTAÇÕES, ADIÇÃO OU SUBTRAÇÃO DE COMPONENTES NO EQUIPAMENTO POR EMPRESAS NÃO AUTORIZADAS, ESTA EXIGÊNCIA VISA A PROCEDÊNCIA E GARANTIA TOTAL DO EQUIPAMENTO PELO FABRICANTE, APRESENTAR DECLARAÇÃO DO FABRICANTE JUNTAMENTE COM A PROPOSTA. **COMPROVAÇÕES TÉCNICAS** – O COMPUTADOR OFERTADO DEVERÁ ESTAR DE ACORDO COM AS DIRETIVAS ROHS E ENERGY STAR. O FABRICANTE DEVERÁ ESTAR REGISTRADO NA “MEMBERSHIP LIST” DO UNIFIED EXTENSIBLE FIRMWARE INTERFACE FORUM, ACESSÍVEL PELO WEBSITE [WWW.UEFI.ORG/MEMBERS](http://www.uefi.org/members), NA CATEGORIA PROMOTERS, DE FORMA A ATESTAR QUE OS SEUS EQUIPAMENTOS ESTÃO EM CONFORMIDADE COM A ESPECIFICAÇÃO UEFI 2.X OU SUPERIOR. O FABRICANTE DO EQUIPAMENTO DEVERÁ SER MEMBRO DO CONSORCIO DMTF (DESKTOP MANAGEMENT TASK FORCE) QUE ESPECIFICA O PADRÃO DMI DE GERENCIAMENTO, NA CATEGORIA BOARD OU CIM PARTICIPATORY. A PROPOSTA DEVERÁ DESTACAR CLARAMENTE A MARCA, MODELO E O PROCESSADOR PARA OS EQUIPAMENTOS OFERTADOS, DEVENDO AINDA SER APRESENTADO JUNTAMENTE COM A PROPOSTA, COMPROVAÇÕES OFICIAIS DO FABRICANTE DESTACANDO MODELO OFERTADO, COMPONENTES E GARANTIA. NO CASO DAS CERTIFICAÇÕES EXTRAÍDAS DA INTERNET, APRESENTAR PÁGINA IMPRESSA ONDE CONSTA TAL INFORMAÇÃO, ESPECIFICANDO O ENDEREÇO ELETRÔNICO DA FONTE EXTRAÍDA. PERMITINDO QUE A COMISSÃO DE LICITAÇÃO, COMPROVE PLENO ATENDIMENTO DE TODAS AS CARACTERÍSTICAS TÉCNICAS DO COMPUTADOR E PERIFÉRICOS EM CONFORMIDADE COM AS DESCRITAS NO EDITAL E SEUS ANEXOS, SOB PENA DE DESCLASSIFICAÇÃO DA PROPOSTA.

ITEM 30

Notebook HP 240 G7

Processador Intel® Core™ i5-1035G1 Cache de 6M, até 3,60 GHz

Unidade de Armazenamento HP SSD 256GB PCIE NVME VALUE- L44333-001

Care Pack U9BA7E

QuickSpec: <https://h20195.www2.hp.com/v2/getpdf.aspx/c06550149.pdf>

Datasheet: <https://h20195.www2.hp.com/v2/GetPDF.aspx/4aa7-4090ptl.pdf>

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Hewlett Packard
Enterprise



SOPHOS

VEEAM

SMS

NHS

GARMIN

PartSurfer: <https://partsurfer.hp.com/Search.aspx?searchText=21Y20LA>

Ark Intel: <https://ark.intel.com/content/www/br/pt/ark/products/196603/intel-core-i5-1035g1-processor-6m-cache-up-to-3-60-ghz.html>

PassMark: <https://www.cpubenchmark.net/cpu.php?cpu=Intel+Core+i5-1035G1+%40+1.00GHz&id=3558>

DMTF: <https://www.dmtf.org/about/list>

UEFI: <https://uefi.org/members>

NOTEBOOK CORPORATIVO INTERMEDIÁRIO COM AS SEGUINTE CARACTERÍSTICAS MÍNIMAS: OS EQUIPAMENTOS DEVEM PERTENCER À LINHA CORPORATIVA, SEREM NOVOS, SEM USO E ESTAR EM LINHA DE PRODUÇÃO, NÃO SENDO ACEITOS EQUIPAMENTOS DESTINADOS AO USO DOMÉSTICO OU DESCONTINUADOS, APRESENTAR DECLARAÇÃO DO FABRICANTE JUNTAMENTE COM A PROPOSTA, COM EMISSÃO NÃO SUPERIOR A 30 DIAS. **PROCESSADOR** – DEVERÁ POSSUIR 4 NÚCLEOS FÍSICOS, FREQUÊNCIA BASE DE 1.0GHZ, COM CARACTERÍSTICAS E DESEMPENHO EQUIVALENTE OU SUPERIOR AO ÍNDICE DE 7.850 PONTOS REGISTRADO PASSMARK – CPU BENCHMARKS DISPONÍVEL NO SITE [HTTP://WWW.CPUBENCHMARK.NET/CPU_LIST.PHP](http://www.cpubenchmark.net/cpu_list.php). MEMÓRIA - DEVERÁ POSSUIR 8GB DE MEMÓRIA DDR4 INSTALADA, OPERANDO A 2.666 MHZ. UNIDADE DE **ARMAZENAMENTO** – DEVERÁ ESTAR INSTALADA INTERNAMENTE AO EQUIPAMENTO, DO TIPO SSD NVME COM CAPACIDADE MÍNIMA DE 240 GB DO PRÓPRIO FABRICANTE DO COMPUTADOR OU HOMOLOGADA PELO MESMO, DEVENDO SER APRESENTADO O PART NUMBER DESTES COMPONENTES NA PROPOSTA; **PLACA PRINCIPAL** – A PLACA MÃE DEVERÁ SER DA MESMA MARCA DO FABRICANTE DO EQUIPAMENTO, DESENVOLVIDA ESPECIFICAMENTE PARA O MODELO OFERTADO, NÃO SENDO ACEITAS SOLUÇÕES EM REGIME DE OEM OU CUSTOMIZADAS. CHIPSET DESENVOLVIDO PARA O MERCADO MÓVEL, INTEGRADO AO PROCESSADOR EM UMA ÚNICA PASTILHA, TIPO SOC (SYSTEM ON CHIP). DEVERÁ POSSUIR 2 (DOIS) SLOTS PARA EXPANSÃO DE MEMÓRIA, PERMITINDO A EXPANSÃO PARA 16GB. DEVERÁ POSSUIR CONECTIVIDADE CABEADA NO PADRÃO GIGABIT, SEM FIO NO PADRÃO 802.11AC E BLUETOOTH, AMBOS INTEGRADOS A PLACA MÃE. DEVERÁ POSSUIR UMA SAÍDA PARA CONEXÃO DE VÍDEO NO PADRÃO DISPLAY PORT OU HDMI, NÃO SENDO ACEITA SOLUÇÕES ATRAVÉS DE ADAPTADORES. DEVERÁ POSSUIR 03 (TRÊS) PORTAS USB, SENDO PELO MENOS 2 PORTAS 3.0 OU SUPERIOR. **BIOS** – DEVERÁ SER DESENVOLVIDA PELO MESMO FABRICANTE DO COMPUTADOR COM DIREITOS DE COPYRIGHT EM PORTUGUÊS, EM CONFORMIDADE COM AS ESPECIFICAÇÕES UEFI 2.1, COMPROVADA ATRAVÉS DA NOMEAÇÃO DO FABRICANTE NO SITE [HTTP://WWW.UEFI.ORG/MEMBERS](http://www.uefi.org/members), NA CATEGORIA PROMOTERS. AS ATUALIZAÇÕES, QUANDO NECESSÁRIAS, DEVEM SER DISPONIBILIZADAS NO SITE DO FABRICANTE DO COMPUTADOR. **TELA** - DEVERÁ POSSUIR TELA COM TECNOLOGIA HD LED DE 14 POLEGADAS, RESOLUÇÃO DE 1366 X 768 OU SUPERIOR. MULTIMÍDIA DEVERÁ POSSUIR CONTROLE DE VOLUME E ALTO-FALANTES DE SOM ESTÉREO 16BITS INCORPORADO À PLACA MÃE. DEVERÁ POSSUIR CONECTOR (ES) DE ENTRADA E SAÍDA DE ÁUDIO, MICROFONE, E WEBCAM INTEGRADA AO GABINETE. **TECLADO** – DEVERÁ ESTAR EM CONFORMIDADE COM O PADRÃO ABNT-2 PADRÃO PORTUGUÊS BR. DISPOSITIVO APONTADOR SENSÍVEL AO TOQUE (TOUCHPAD) INCORPORADO COM NO MÍNIMO 2 BOTÕES. FONTE DE ALIMENTAÇÃO – BIVOLT AUTOMÁTICA E BATERIA RECARREGÁVEL DE LÍCIO-ION (LI-ION) DE 3 (TRÊS) CÉLULAS. SISTEMAS DEVERÁ VIR INSTALADO SISTEMA OPERACIONAL WINDOWS 10 PROFESSIONAL 64 BITS OEM, COM LICENÇA DE ATIVAÇÃO ATRAVÉS DA BIOS. **GARANTIA** – OS EQUIPAMENTOS DEVEM POSSUIR GARANTIA PADRÃO DO FABRICANTE DO COMPUTADOR, POR UM PERÍODO DE 36(TRINTA E SEIS) MESES E 12(DOZE) MESES PARA BATERIA, COM EXCEÇÃO DE COMPONENTES DE UPGRADE, COM MÃO-DE-OBRA DE ASSISTÊNCIA TÉCNICA E SERVIÇO DE SUPORTE NO LOCAL PARA REPOSIÇÃO E REPARO DE PEÇAS DANIFICADAS POR PROBLEMAS DE FABRICAÇÃO. NÃO SERÃO ACEITAS ADAPTAÇÕES, ADIÇÃO OU SUBTRAÇÃO DE COMPONENTES NO EQUIPAMENTO POR EMPRESAS NÃO AUTORIZADAS, ESTA EXIGÊNCIA VISA A PROCEDÊNCIA E GARANTIA TOTAL DO EQUIPAMENTO PELO FABRICANTE, APRESENTAR DECLARAÇÃO DO FABRICANTE JUNTAMENTE COM A PROPOSTA. **COMPROVAÇÕES TÉCNICAS:** O COMPUTADOR OFERTADO DEVERÁ ESTAR DE ACORDO COM AS DIRETIVAS ROHS E ENERGY STAR. O FABRICANTE DEVERÁ ESTAR REGISTRADO NA “MEMBERSHIPLIST” DO UNIFIEDEXTENSIBLE FIRMWARE INTERFACE FÓRUM, ACESSÍVEL PELO WEBSITE [WWW.UEFI.ORG/MEMBERS](http://www.uefi.org/members), NA CATEGORIA PROMOTERS, DE FORMA A ATESTAR QUE OS SEUS EQUIPAMENTOS ESTÃO EM CONFORMIDADE COM A ESPECIFICAÇÃO UEFI 2.X OU SUPERIOR. O FABRICANTE DO EQUIPAMENTO DEVERÁ SER MEMBRO DO CONSORCIO DMTF (DESKTOP MANAGEMENT TASK FORCE) QUE ESPECIFICA O PADRÃO DMI DE GERENCIAMENTO, NA CATEGORIA BOARD OU CIM PARTICIPATORY. A PROPOSTA DEVERÁ DESTACAR CLARAMENTE A MARCA, MODELO E O PROCESSADOR PARA OS EQUIPAMENTOS OFERTADOS, DEVENDO AINDA SER APRESENTADO JUNTAMENTE COM A PROPOSTA, COMPROVAÇÕES OFICIAIS DO FABRICANTE DESTACANDO MODELO OFERTADO, COMPONENTES E GARANTIA. NO CASO DAS CERTIFICAÇÕES EXTRAÍDAS DA INTERNET, APRESENTAR PÁGINA IMPRESSA ONDE CONSTA TAL INFORMAÇÃO, ESPECIFICANDO O ENDEREÇO ELETRÔNICO DA FONTE EXTRAÍDA. PERMITINDO QUE A COMISSÃO DE LICITAÇÃO, COMPROVE PLENO ATENDIMENTO DE TODAS AS CARACTERÍSTICAS TÉCNICAS DO COMPUTADOR E PERIFÉRICOS EM CONFORMIDADE COM AS DESCRITAS NO EDITAL E SEUS ANEXOS, SOB PENA DE DESCLASSIFICAÇÃO DA PROPOSTA

Verlin Tecnologia da Informação LTDA (CNPJ: 10.894.828/0001-94)

Rua Lino Colussi, 123, Vinosul - Bento Gonçalves/RS (CEP 95701-504)

contato@verlin.com.br / www.verlin.com.br - (54) 3451-9505/ 3454-5554





HP Brasil Indústria e Comércio de Equipamentos Eletrônicos Ltda.
Alameda Xingu, n.º 350, 8º andar
Alphaville Industrial, Barueri/SP
CEP: 06455-030
Brasil

declaração

Barueri, 18 de Agosto de 2021

Ao/À
MUNICÍPIO DE COTIPORÃ

Assunto:
PREGÃO /RFP Nº 0008/2021

BDI 17359

A **HP BRASIL INDÚSTRIA E COMÉRCIO DE EQUIPAMENTOS ELETRÔNICOS LTDA. (HP)**, em atendimento ao quanto solicitado pelo Parceiro HP **Verlin & Piontkoski Ltda**, declara que:

A empresa **VERLIN TECNOLOGIA DA INFORMAÇÃO LTDA**, inscrita no CNPJ **10.894.828/0001-94** sediada na RUA Rua Lino Colussi, 123, Vinosul, Bento Gonçalves, Rio Grande do Sul - CEP 95701-504, é um **PARCEIRO AUTORIZADO HP PARA COMPRA DE PRODUTOS HP DE DISTRIBUIDORES AUTORIZADOS HP**, estando apto a comercializar Produtos HP.

Declaramos ainda que, os produtos **1Q380LA#AC4-HP Desktop Pro A G3**, **8RE20LA#AC4-HP Desktop Pro A G3**, **9XM17LA#AC4-HP Desktop Pro A G3**, vendidos pela **HP** a seus **Distribuidores Autorizados** possuem:

- Os equipamentos pertencem à linha corporativa, são novos, sem us.
- A Placa mãe é de fabricação própria e exclusiva para os modelos ofertados
- BIOS em português, desenvolvida pela HP, em conformidade com a normativa NIST 800-147
- Permite a inserção de código de identificação do equipamento dentro do próprio BIOS (número do patrimônio e número de série).
- A BIOS está em conformidade com a normativa NIST 800-147
- Permite salvar as configurações da BIOS em um arquivo e carregá-las em outros equipamentos do mesmo modelo, estando este com senha configurada na BIOS ou não, facilitando assim a aplicação automatizada de configurações e políticas de segurança;
- Software embarcado no BIOS com Funções de diagnóstico de problemas, e gerenciamento permitindo o teste do equipamento, com independência do sistema operacional instalado, o software de diagnóstico é capaz de ser executado (inicializado) a partir da UEFI (Unified Extensible Firmware Interface) ou do Firmware do equipamento através do acionamento de tecla função (F1...F12). O software de diagnóstico é capaz de informar, através de tela gráfica: O fabricante e modelo do equipamento; processador; memória RAM; firmware do equipamento; capacidade do disco rígido.
- Todos os componentes serão integrados em fábrica pela HP

LMB

- Possuem sistema operacional Windows 10 Professional instalado em fábrica com ativação pela BIOS;
- Possuem botão de liga/desliga e luzes de indicação de computador ligado (Power-on) e de acesso ao HD;
- Equipamentos possuem certificação PPB
- Garantia padrão do próprio fabricante conforme solicitado no edital 36 meses on-site, com mão-de-obra e suporte no local para reposição e reparo de peças danificadas por problemas de fabricação.
- A Verlin Tecnologia da Informação Ltda está autorizada a fazer upgrades de unidades de armazenamento, memória e processamento, mantendo-se a garantia padrão HP. A garantia dos componentes utilizados no upgrade possuem a sua própria política de garantia, não sendo "absorvida" pela garantia padrão (ou carepack) do equipamento.

Declaramos ainda que, os produtos **2XM32AA#AC4-HP V19b 18.5-inch Monitor**, **2XM33AA#AC4-HP V22b 21.5-inch Monitor**, **2XM34AA#AC4-HP V24b 23.6-inch Monitor**, vendidos pela **HP** a seus **Distribuidores Autorizados** possuem:

- Os monitores pertencem à linha corporativa, são novos, sem uso.
- A Placa mãe é de fabricação própria e exclusiva para os modelos ofertados
- Possuem botão de liga/desliga e luzes de indicação de computador ligado (Power-on).
- Equipamentos possuem certificação PPB
- Garantia padrão do próprio fabricante conforme solicitado no edital
- Todos os componentes serão integrados em fábrica pela H

Declaramos ainda que, os produtos **3G5A2LA#AK4-HP 250 G8**, **3G5A4LA#AK4-HP 250 G8**, **4B0D3LA#AK4-HP 250 G8**, **4B0D4LA#AK4-HP 250 G8**, **21Y20LA#AC4-HP 240 G7**, **21Y21LA#AC4-HP 240 G7**, **200G5LA#AC4-HP 240 G7**, **200G6LA#AC4-HP 240 G7**, vendidos pela **HP** a seus **Distribuidores Autorizados** possuem

- Os equipamentos pertencem à linha corporativa, são novos, sem us.
- A Placa mãe é de fabricação própria e exclusiva para os modelos ofertados
- BIOS em português, desenvolvida pela HP, em conformidade com a normativa NIST 800-147
- Permite a inserção de código de identificação do equipamento dentro do próprio BIOS (número do patrimônio e número de série).
- A BIOS está em conformidade com a normativa NIST 800-147
- Permite salvar as configurações da BIOS em um arquivo e carregá-las em outros equipamentos do mesmo modelo, estando este com senha configurada na BIOS ou não, facilitando assim a aplicação automatizada de configurações e políticas de segurança;
- Software embarcado no BIOS com Funções de diagnóstico de problemas, e gerenciamento permitindo o teste do equipamento, com independência do sistema operacional instalado, o software de diagnóstico é capaz de ser executado (inicializado) a partir da UEFI (Unified Extensible Firmware Interface) ou do Firmware do equipamento através do acionamento de tecla função (F1...F12). O software de diagnóstico é capaz de informar, através de tela gráfica: O fabricante e modelo do equipamento; processador; memória RAM; firmware do equipamento; capacidade do disco rígido.
- Todos os componentes serão integrados em fábrica pela HP
- Possuem sistema operacional Windows 10 Professional instalado em fábrica com ativação pela BIOS;
- Possuem botão de liga/desliga e luzes de indicação de computador ligado (Power-on) e de acesso ao HD;

LMV/B

- Equipamentos possuem certificação PPB
- Garantia padrão do próprio fabricante conforme solicitado no edital 36 meses on-site, com mão-de-obra e suporte no local para reposição e reparo de peças danificadas por problemas de fabricação.
- A Verlin Tecnologia da Informação Ltda está autorizada a fazer upgrades de unidades de armazenamento, memória e processamento, mantendo-se a garantia padrão HP . A garantia dos componentes utilizados no upgrade possuem a sua própria política de garantia, não sendo “absorvida” pela garantia padrão (ou carepack) do equipamento.

Durante o período de garantia do Produto HP, a Fabricante HP responsabiliza-se pela garantia no prazo e condições padrão HP, conforme especificado no termo de garantia que acompanha o Produto HP e no manual técnico do Produto HP.

Serviços adicionais ao especificado na garantia padrão da Fabricante HP poderão ser adquiridos pelo Parceiro HP Autorizado para Compra Direta/Distribuidores Autorizados HP, com prazos e condições customizados.

1Q380LA#AC4-HP Desktop Pro A G3-Carepack adicional-U6578E- HP Serviço de Suporte no Local para Desktop por 3 anos para eq 1/1/1
8RE20LA#AC4-HP Desktop Pro A G3-Carepack adicional-U6578E- HP Serviço de Suporte no Local para Desktop por 3 anos para eq 1/1/1
9XM17LA#AC4-HP Desktop Pro A G3-Carepack adicional-U6578E- HP Serviço de Suporte no Local para Desktop por 3 anos para eq 1/1/1

3G5A2LA#AK4-HP 250 G8-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
3G5A4LA#AK4-HP 250 G8-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
4B0D3LA#AK4-HP 250 G8-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
4B0D4LA#AK4-HP 250 G8-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
21Y20LA#AC4-HP 240 G7-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
21Y21LA#AC4-HP 240 G7-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
200G5LA#AC4-HP 240 G7-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0
200G6LA#AC4-HP 240 G7-Carepack adicional-U9BA7E- HP Serviço de Suporte no Local para Notebook por 3 anos para eq 1/1/0

Declaramos que os equipamentos fabricados pela HP são novos, que não foram submetidos a uso, nem recondicionamento, ressalvados os testes de fábrica.

Os Produtos da marca HP são de fabricação própria ou homologados por regime de O&M e estão em linha de produção atual.

Declaramos, ainda, que a HP possui site na internet - www.hp.com.br – onde pode ser efetuado download de drivers para os Produtos HP e número de telefone para Grande São Paulo – (011) 4004-7751 e demais regiões – 0800 709 77 51 - para informações e aberturas de chamados técnicos.

LMVB

A Rede de Serviços Autorizados HP está distribuída em todo território nacional, ou conforme indicado a seguir, com uso de peças e componentes originais e com técnicos devidamente treinados pela HP:

Esta declaração é válida por 30 (trinta) dias corridos, a contar da data de sua emissão.

Atenciosamente,

LUANA MELATTO VILAS
BOAS:28755606890

Digitally signed by LUANA MELATTO
VILAS BOAS:28755606890
Date: 2021.08.19 17:06:25 -03'00'

Luana Melatto Vilas Boas
Representante Legal
HP Indústria e Comércio de Equipamentos Eletrônicos Ltda.



HP 240 G7 Notebook PC

Budget friendly. Business ready.

Get connected with the value-priced HP 240 Laptop PC with the latest technology and a durable chassis that helps protect the PC. Complete business tasks with Intel® processors² and essential collaboration tools.



HP recommends Windows 10 Pro.

Powered for business

- Confidently complete projects with the latest technology including powerful 10th generation Intel® Core™ processors² with optional DDR4 memory³ or Intel® Optane™ memory⁴, and solid-state storage options.³

Durable mobile design

- Rest assured that the HP 240 can keep up with mobile workstyles with a thinner and lighter design. The durable chassis protects the laptop, so it looks as professional as you do.

Well-connected

- This laptop is ready to connect to all your peripherals³ and is designed to fit the needs of business with an RJ-45 port and HDMI port.
- Help secure the future of your business. PCs from HP make the most of Windows 10 Pro to protect you from today's security threats and maximize management and productivity features for business.¹
- Sometimes in life, only a face-to-face conversation will do. Thanks to the optional HP HD Webcam with wide dynamic range (WDR), you always come off looking your best in bright and low light conditions.^{3,5}
- Get the best of both worlds with dual storage options. Boot up and access apps faster with a high-speed solid-state drive and enjoy expansive storage for digital media with a high-capacity hard drive.⁵
- Suppress background noise including keyboard clicks with HP Noise Cancellation Software.
- Quickly connect to your wired network and peripherals in the office or at home with RJ-45 and HDMI ports. Easily back-up and move data to and from your HP 240 with the fast and convenient SD card slot.
- The firmware Trusted Platform Module (TPM) provides hardware-based encryption keys to help secure your data, e-mail, and user credentials.
- Get fast connections with Gigabit LAN and an optional WLAN 802.11ac/Bluetooth® 5.0 combo.^{3,6}

HP 240 G7 Notebook PC Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro. ¹ Windows 10 Pro 64 (National Academic License) ² Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS
Processor family ^{6,25,26}	7th Generation Intel® Core™ i3 processor (i3-7020U); 7th Generation Intel® Core™ i3 processor (i3-7100U); 8th Generation Intel® Core™ i3 processor (i3-8130U); 8th Generation Intel® Core™ i5 processor (i5-8250U); 8th Generation Intel® Core™ i7 processor (i7-8550U); 8th Generation Intel® Core™ i7 processor (i7-8565U); 8th Generation Intel® Core™ i5 processor (i5-8265U); Intel® Celeron® processor; Intel® Pentium® processor; Intel® Pentium® Silver processor; 10th Generation Intel® Core™ i7 processor (i7-1065G7); 10th Generation Intel® Core™ i5 processor (i5-1035G1); 10th Generation Intel® Core™ i3 processor (i3-1005G1)
Available Processors ^{3,4,5,6,25,26}	Intel® Pentium® Silver N5000 with Intel® UHD Graphics 605 (1.1 GHz base frequency, up to 2.7 GHz burst frequency, 4 MB cache, 4 cores); Intel® Pentium® Gold 4417U with Intel® HD Graphics 610 (2.3 GHz, 2 MB cache, 2 cores); Intel® Core™ i7-8565U with Intel® UHD Graphics 620 (1.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i7-8550U with Intel® UHD graphics 620 (1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Core™ i5-8265U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores); Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i3-8130U with Intel® UHD graphics 620 (2.2 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores); Intel® Core™ i3-7100U with Intel® HD Graphics 620 (2.4 GHz, 3 MB cache, 2 cores); Intel® Core™ i3-1005G1 processor with Intel® UHD Graphics (1.2 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores); Intel® Celeron® N4100 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.4 GHz burst frequency, 4 MB cache, 4 cores); Intel® Celeron® N4020 with Intel® UHD Graphics 600 (1.1 GHz base frequency, up to 2.8 GHz burst frequency, 4 MB cache, 2 cores); Intel® Pentium® Silver N5030 with Intel® UHD Graphics 605 (1.1 GHz base frequency, up to 3.1 GHz burst frequency, 4 MB cache, 4 cores); Intel® Core™ i7-1065G7 processor with Intel® Iris™ Plus Graphics (1.3 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores); Intel® Core™ i5-1035G1 processor with Intel® UHD Graphics (1 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)
Display size (diagonal)	14 ^{12,16}
Maximum memory	16 GB DDR4-2666 SDRAM; 16 GB DDR4-2400 SDRAM ⁷ Dual channel support.
Memory slots	2 SODIMM
Internal storage	up to 256 GB PCIe® NVMe™ Value M.2 SSD ⁸ 128 GB up to 512 GB M.2 SATA SSD TLC ⁸ up to 500 GB 7200 rpm SATA ⁸ 500 GB up to 1 TB 5400 rpm SATA ⁸
Optical drive	Not included
Display	14" diagonal HD SVA eDP anti-glare WLED-backlit slim-flat, 220 nits, 45% NTSC (1366 x 768); 14" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC ^{12,16}
Available Graphics	Integrated: Intel® UHD Graphics 620; Intel® HD Graphics 610; Intel® HD Graphics 620; Intel® UHD Graphics 605; Intel® UHD Graphics 600; Intel® Iris™ Plus Graphics ¹² Discrete: AMD Radeon™ 530 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ 620 Graphics (2 GB GDDR5 dedicated) ¹³ (Support HD Decode, DX12, and HDMI 1.4b.)
Audio	Dual speakers
Wireless technologies	Realtek 802.11ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo; Realtek 802.11ac (1x1) Wi-Fi® and Bluetooth® 4.2 Combo; Realtek 802.11ac (2x2) Wi-Fi® and Bluetooth® 5 Combo ⁹ (MU-MIMO supported)
Expansion slots	1 multi-format digital media reader (Supports SD, SDHC, SDXC.)
Ports and Connectors	2 USB 3.1 Gen 1; 1 USB 2.0; 1 HDMI 1.4b; 1 RJ-45; 1 headphone/microphone combo; 1 AC power (Cables are not included.)
Input devices	Full-size island-style keyboard; Touchpad with multi-touch gesture support
Communications	Integrated 10/100/1000 GbE NIC ¹¹
Camera	HP TrueVision HD Camera; VGA webcam ^{12,14,15}
Security management	TPM 2.0; Security lock slot ^{18,19}
Fingerprint reader	Fingerprint reader not available
Power	HP Smart 65 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 45 W External AC power adapter ^{21,22}
Battery type	HP Long Life 3-cell, 41 Wh Li-ion; HP Long Life 4-cell, 46 Wh Li-ion ^{21,22}
Battery life	Up to 12 hours and 15 minutes ²⁰
Dimensions	33.5 x 23.4 x 1.99 cm
Weight	Starting at 1.52 kg (Weight will vary by configuration.)
Energy efficiency compliance	ENERGY STAR® certified; EPEAT® 2019 registered ²⁴
Warranty	HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc .

HP 240 G7 Notebook PC

Accessories and services (not included)

HP USB Essential Keyboard and Mouse



The HP USB Essential Keyboard/Mouse Bundle is designed to help you customize your desktop work space when you park your notebook at the office. Offering flexibility and wireless connectivity in the office and on the road. HP's extensive range of notebook PCs enable increased productivity and efficiency, by providing the perfect combination of built-in mobility features to match the particular needs of individuals from businesses large and small.
Product number: H6L29AA

HP 3-year Travel Next Business Day Notebook Only Service



This HP services offers notebook users on the go prompt, reliable coverage in major geographies of the world, for 3 years. For more information on Care Pack services, please visit www.hp.com/go/cpc.
Product number: UL653E

HP 240 G7 Notebook PC

Messaging Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply, and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ³ Sold separately or as an optional feature.
- ⁴ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
- ⁵ Internet connection required and sold separately.
- ⁶ Wireless access point and internet access required. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the laptop to communicate with other 802.11ac WLAN devices.

Technical Specifications Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>.
- ² Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.
- ³ Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ⁴ Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- ⁵ Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
- ⁶ In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- ⁷ Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
- ⁸ For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
- ⁹ Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- ¹¹ The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- ¹² HD content required to view HD images.
- ¹³ AMD Dynamic Switchable Graphics technology requires an Intel processor, plus an AMD Radeon™ discrete graphics configuration and is not available on FreeDOS and Linux OS. With AMD Dynamic Switchable Graphics technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).
- ¹⁴ Sold separately or as an optional feature.
- ¹⁵ Internet access required.
- ¹⁶ Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- ¹⁷ HP Support Assistant requires Windows and Internet access.
- ¹⁸ Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT). TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- ¹⁹ Lock sold separately.
- ²⁰ Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.
- ²¹ Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/- 10% due to System tolerance.
- ²² Availability may vary by country.
- ²³ HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
- ²⁴ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.
- ²⁵ Intel® Core™ i7-8565U, Intel® Core™ i7-8550U, Intel® Core™ i5-8250U, Intel® Core™ i3-7100 processors only available until July 31st, 2020.
- ²⁶ Intel® Core™ i3-7020 processor only available until December 31st, 2020.

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4AA7-3634EEAP, September 2020



Overview

HP 240 G7 Notebook PC



1. Webcam LED
2. Webcam
3. Internal microphone
4. Touchpad
5. Touchpad button
6. Power indicator LED

Left

7. Hard drive indicator LED
8. SD Card slot
9. USB 2.0 port
10. Security lock slot (Lock sold separately)
11. Power button

Overview



Right

- | | |
|-----------------------------------|-----------------------|
| 1. AC Smart Pin adapter plug | 4. USB 3.1 Gen 1 port |
| 2. RJ-45/Ethernet port | 5. USB 3.1 Gen 1 port |
| 3. HDMI port (Cable not included) | 6. Audio combo jack |

Overview

AT A GLANCE

- Preinstall with Windows 10 versions, FreeDOS
- Choice of 10th 8th Generation Intel® Core™, Intel® Pentium®, or Intel® Celeron® processors
- 14" diagonal FHD IPS anti-glare micro-edge WLED backlit (1920x1080)
- Choice of Integrated Intel® Iris® Plus graphics, UHD Graphics 620, HD Graphics 620, HD Graphics 610, UHD Graphics 605, UHD Graphics 600 Graphics or Switchable Discrete Graphics AMD Radeon™ 530, 620
- Dark Ash Silver color with texture pattern
- Up to 1 TB Hard Drive or 256 GB M.2 PCIe Value Solid State Drive
- Weight starting at 1.52 kg (3.4 lbs)
- Security features including FW TPM 2.0 and security lock slot (Lock not included)
- Full size textured island-style keyboard
- Touchpad with gestures support
- HP webcam with single digital microphone and HD (supporting WDR- Wide Dynamic Range) or VGA camera
- Two USB 3.1 (Gen 1) ports and One USB 2.0 port
- Wireless LAN (WLAN) up to 802.11 ac to keep you connected
- Up to 12 hours 15 mins (Intel® 10th generation CPU, HD display, Solid State Drive & 3-cell 41 WHr battery)

NOTE: See important legal disclosures for all listed specs in their respective features sections.

Features

PRODUCT NAME

HP 240 G7 Notebook PC

OPERATING SYSTEM

Preinstalled	Windows 10 Pro 64 ¹ Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ Windows 10 Pro 64 (National Academic only) ^{1,2} FreeDOS
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1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>.

2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.

PROCESSOR

Intel® Core™ i3-10110U Processor with Intel® UHD Graphics (2.1 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 4MB cache, 2 cores)^{3,4,5,6}

Intel® Core™ i5-10210U Processor with Intel® UHD Graphics (1.60 GHz base frequency, up to 4.20 GHz with Intel® Turbo Boost Technology, 6MB cache, 4 cores)^{3,4,5,6}

Intel® Core™ i7-10510U Processor with Intel® UHD Graphics (1.80 GHz base frequency, up to 4.90 GHz with Intel® Turbo Boost Technology, 8MB cache, 4 cores)^{3,4,5,6}

Processor Family

10th Generation Intel® Core™ i7 processor (i7-1065G7/ i7-10510U)⁶

10th Generation Intel® Core™ i5 processor (i5-1035G1/ i5-10210U)⁶

10th Generation Intel® Core™ i3 processor (i3-1005G1/ i3-10110U)⁶

8th Generation Intel® Core™ i3 processor (i3-8130U)

3. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

5. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.

6. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.

Features

CHIPSET

Intel® SOC Chipset

GRAPHICS

Integrated

Intel® Iris® Plus graphics³⁰

Intel® UHD Graphics 620⁷

Intel® HD Graphics 620⁷

Intel® HD Graphics 610

Intel® UHD Graphics 605⁷

Intel® UHD Graphics 600⁷

Discrete

AMD Radeon™ RX 520 (2 GB GDDR5 dedicated)⁸

AMD Radeon™ 620(2 GB GDDR5 dedicated)⁸

Supports

Support HD decode, DX12, HDMI 1.4b⁹

7. HD content required to view HD images.

8. AMD Dynamic Switchable Graphics technology requires an Intel processor, plus an AMD Radeon™ discrete graphics configuration and is not available on FreeDOS and Linux OS. With AMD Dynamic Switchable Graphics technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

9. HDMI cable sold separately.

30. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.

Features

DISPLAY

Internal

Non-Touch

35.56 cm (14") diagonal HD SVA eDP anti-glare WLED-backlit slim-flat, 220 cd/m², 45% NTSC (1366 x 768)^{7,10}

35.6 cm (14") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC^{7,10}

HDMI

Port supports resolutions up to 1920 x 1200 external resolution @60 Hz

7. HD content required to view HD images.

10. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage

1 TB 5400 rpm SATA¹¹

500 GB 7200 rpm SATA¹¹

500 GB 5400 rpm SATA¹¹

Primary M.2 Storage

128 GB M.2 SATA-3 TLC Solid State Drive¹¹

256 GB M.2 SATA-3 TLC Solid State Drive¹¹

256 GB PCIe[®] NVMe[™] M.2 Value Solid State Drive¹¹

512 GB PCIe[®] NVMe[™] M.2 Value Solid State Drive¹¹

SSD 256GB PCIe NVMe+SSD 16GB 3D Xpoint(Intel[®] Optane[™])^{12,13}

SSD 512GB PCIe NVMe+SSD 32GB 3D Xpoint(Intel[®] Optane[™])^{12,13}

11. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.

12. Intel[®] Optane[™] memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel[®] Core[™] processor, BIOS version with Intel[®] Optane[™] supported, Windows 10 64-bit, and an Intel[®] Rapid Storage Technology (Intel[®] RST) driver.

13. Intel[®] Optane[™] memory H10 only for Intel[®] PCIe[®] NVMe[™] QLC M.2 SSD.

MEMORY

Standard

Maximum Memory

16 GB DDR4-2666 SDRAM 1216 GB DDR4-2400 SDRAM¹⁴

16 GB DDR4-2133 SDRAM¹⁴

Memory

16 GB DDR4-2666 SDRAM (2 X 8 GB)

16 GB DDR4-2400 SDRAM (2 X 8 GB)¹⁴

12 GB DDR4-2400 SDRAM (4 GB + 8 GB)¹⁴

8 GB DDR4-2666 SDRAM (1 x 8 GB)

8 GB DDR4-2400 SDRAM (1 x 8 GB)

8 GB DDR4-2400 SDRAM (2 x 4 GB)¹⁴

Features

8 GB DDR4-2666 SDRAM (2 x 4 GB)
4 GB DDR4-2666 SDRAM (1 x 4 GB)
4 GB DDR4-2400 SDRAM (1 x 4 GB)
12 GB DDR4-2133 SDRAM (4 GB + 8 GB)¹⁴
8 GB DDR4-2133 SDRAM (1 x 8 GB)
4 GB DDR4-2133 SDRAM (1 x 4 GB)

Memory Slots

2 SODIMM (Intel® 8th & 10th Generation Intel® Core™ processor)
DDR4 PC4 SODIMMS, system runs at 2666 (Intel 8th Gen (KBL) runs at 2400)
Supports Dual Channel Memory
1 SODIMM (Intel® Pentium®, Celeron® processors)
All slots are customer non-accessible / non-upgradeable

NOTE: All slots are customer non-accessible / non-upgradeable.

14. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

WLAN

Realtek 802.11ac (2x2) WLAN and Bluetooth® 4.2 Combo (MU-MIMO supported)¹⁵
Realtek 802.11ac (2x2) WLAN and Bluetooth® 5.0 Combo (MU-MIMO supported)¹⁵
Realtek 802.11ac (1x1) WLAN and Bluetooth® 4.2 Combo (MU-MIMO supported)¹⁵
Realtek 802.11b/g/n (1x1) and Bluetooth® 4.2 Combo¹³

Miracast

Compatible with Miracast-certified devices ¹⁶

Ethernet

Integrated 10/100/1000 GbE NIC ¹⁷

15. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.

16. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

17. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers

Camera

HP TrueVision HD Camera ^{7,18}

Webcam

VGA webcam ^{18,19}

7. HD content required to view HD images.

18. Sold separately or as an optional feature.



Features

19. [Internet access required.](#)

KEYBOARDS/TOUCHPAD

Keyboard

Full size island-style keyboard

Pointing Device

Touchpad with multi-touch gesture support

Function Keys

F1 - Open "How to get help in Windows 10" webpage

F2 - Brightness Down

F3 - Brightness Up

F4 - Display Switching

F5 - Blank

F6 - Mute

F7 - Volume Down

F8 - Volume Up

F9 - Previous

F10 - Play/Pause

F11 - Next

F12 - Airplane mode

SOFTWARE AND SECURITY

Preinstalled Software

HP JumpStarts

HP Documentation

HP Setup Integrated OOBE

HP SSRM

HP Audio Switch

HP Support Assistant ²⁰

McAfee LiveSafe™

Security Management

TPM 2.0²¹

Security lock slot (Lock sold separately)

20. [HP Support Assistant requires Windows and Internet access.](#)

21. [Firmware TPM is version 2.0 implemented by Intel Platform Trust Technology \(PTT\)](#)

POWER

Power Supply

HP Smart 65 W External AC power adapter ^{22,24}

HP Smart 65 W EM External AC power adapter ^{22,24}

HP Smart 45 W External AC power adapter ²²

Features

Primary Battery

HP Long Life 3-cell, 41 Wh Li-ion²³

HP Long Life 4-cell, 46 Wh Li-ion Battery (India only)

Support battery fast charging - Approximately 90% in 90 minutes²⁴

Battery Life

Up to 12 hours 15 mins (Intel® 10th generation CPU, HD display, Solid State Drive & 3-cell 41 WHr battery)²⁵

Power Cord

1M (3.28 feet) length power cord

Battery Weight

0.18 kg

0.39 lb

22. Availability may vary by country.

23. Battery is internal and not replaceable by customer. Serviceable by warranty.

24. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

25. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See <http://www.bapco.com> for additional details.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.3 lbs²⁶

Starting at 1.52 kg²⁶

Product Dimensions (W x D x H)

13.19 x 9.21 x 0.78 in

33.5 x 23.4 x 1.99 cm

26. Weight will vary by configuration.

Features

PORTS/SLOTS

Ports/Connectors

- 2 USB 3.1 Gen 1
- 1 USB 2.0
- 1 HDMI v1.4b⁹
- 1 RJ-45
- 1 AC power
- 1 Headphone/microphone combo jack

Expansion Slots

- 1 multi-format digital media reader
- Supports SD, SDHC, SDXC

9. HDMI cable sold separately.

SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to <http://www.hp.com/support/batterywarranty/> for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/cpc>.²⁷

27. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit <http://www.hp.com/go/cpc>. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage	19.5 V
Average Operating Power	Win 10
Integrated graphics	7.69W
Max Operating Power	Discrete < 65W UMA < 45W

Temperature

Operating	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)
Non-operating	-4° to 140° F (-20° to 60° C)

Relative Humidity

Operating	10% to 90%, non-condensing
Non-operating	5% to 95%

Shock

Operating	40 G, 2 ms duration, half-sine
Non-operating	240 G, 2 ms duration, half-sine

Random Vibration

Operating	1.043 grms
Non-operating	3.5 grms

Planned Industry Standard Certifications

UL	Yes
CSA	No
FCC Compliance	Yes
ENERGY STAR®	Yes ²⁸
EPEAT® 2019	Yes, Silver in U.S. ²⁹
ICES	Yes
Australia /	Yes
NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	Yes
KC	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	Yes
CIT	Yes
GOST	Yes
Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes
UKRSERTCOMPUTER	Yes

²⁸ Configurations of the HP 240 G7 that are ENERGY STAR® certified² are identified as HP 240 G7 ENERGY STAR on HP websites and on <http://www.energystar.gov>.

²⁹ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.

Technical Specifications

DISPLAYS

14" HD WLED Anti-Glare diagonal (1366 x 768) slim-flat (3.0mm), SVA, eDP	Outline Dimensions (W x H x D)	320.9 x 250.6 x 3.0
	Active Area	309.5 x 174.05
	Weight	270g max
	Diagonal Size	14.0 (inch)
	Thickness	3.0 (mm) max
	Interface	eDP 1.2
	Surface Treatment	AG
	Contrast Ratio	300:1 (typ. AG)
	Refresh Rate	60Hz
	Brightness	220nits typical
	Pixel Resolution	1366 x 768 (HD)
	Format of LCD Pixel Arrangement	RGB
	Backlight	LED
	Color Gamut Coverage	45% of NTSC
Color Depth	6 bits	
Viewing Angle	40/40/15/30	

Technical Specifications

STORAGE AND DRIVES

500 GB 5400 rpm SATA Hard Drive	Drive Weight	92g(0.20lb)
	Rotation speed	5400 rpm
	Cache Buffer	Up to 128MB
	Height	7.0 +/- 0.2 mm (0.28 +/- .008 in)
	Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)
	Interface	ATA-8, SATA 3.0
	Transfer Rate	600 MB/s
	Seek Time	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
	Logical Blocks	976,773,168
	Operating Temperature	0° to 60°C
	Security Features	ATA Security
	Features	S.M.A.R.T., NCQ, Ultra DMA

500 GB 7200 rpm SATA Hard Drive	Drive Weight	92g(0.20lb)
	Rotation speed	7200 rpm
	Cache Buffer	Up to 128MB
	Height	7.0 +/- 0.2 mm (0.28 +/- .008 in)
	Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)
	Interface	ATA-8, SATA 3.0
	Transfer Rate	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
	Logical blocks	976,773,168
	Operating temperature	0° to 60°C
	Security features	ATA Security
	Features	S.M.A.R.T., NCQ, Ultra DMA
	Transfer rate	600 MB/s

1 TB 5400 rpm SATA Hard Drive	Drive Weight	90g(0.198lb)
	Rotation speed	5400 rpm
	Cache Buffer	Up to 128MB
	Height	<7.2mm
	Width	69.85 +/- 0.25 mm (2.750 +/- 0.010 in)
	Interface	ATA-8, SATA 3.0

Technical Specifications

Transfer Rate	600 MB/s
Seek Time	Single Track: 1.5 ms Average: 13 ms Maximum: 32 ms
Logical Blocks	976,773,168
Operating Temperature	0° to 60°C
Security Features	ATA Security
Features	S.M.A.R.T., NCQ, Ultra DMA

128 GB 2280 M2 SATA-3 TLC Solid State Drive

Drive Weight	0.02 lb (10 g)
NAND Type/Size	TLC/128GB
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Interface	ATA-8, SATA 3.0
Transfer Rate	550MB/s
Logical Blocks	250,069,680
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Security Features	ATA Security
Features	DIPM; TRIM; DEVSLP

256 GB 2280 M2 SATA-3 TLC Solid State Drive

Drive Weight	0.02 lb (10 g)
Height	0.09 in (2.3 mm)
Width	0.87 in (22 mm)
Interface	ATA-8, SATA 3.0
Transfer Rate	550MB/s
Logical Blocks	500,118,192
Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
Security Features	ATA Security
Features	DIPM; TRIM; DEVSLP

Technical Specifications

256 GB 2280 M2 PCIe NVMe Value Solid State Drive	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	TLC
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Weight	0.01 lb (6 g) ~ 0.02 lb (10 g)
	Interface	PCIe NVMe Gen3x2
	Maximum Sequential Read	Up To 1500 MB/s
	Maximum Sequential Write	Up To 900 MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	TRIM; L1.2

16 GB Intel Optane Solution PCIe Gen3x2 M.2 SSD	Form Factor	M.2 2280
	Capacity	16 GB
	NAND Type	3D Xpoint
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	PCIe NVMe Gen3x2
	Maximum Sequential Read	1350MB/s
	Maximum Sequential Write	290MB/s
	Logical Blocks	31,257,387
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]

NETWORKING/COMMUNICATIONS

WLAN

Realtek RTL8822BE 802.11 ac 2x2 WLAN and Bluetooth® 4.2 Combo Adapter (MU-MIMO supported)¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	•802.11b/g/n 2.402 – 2.482 GHz •802.11a/n 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz

Technical Specifications

	5.47 – 5.725 GHz 5.825 – 5.850 GHz
Data Rates	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security³	<ul style="list-style-type: none"> • IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power²	<ul style="list-style-type: none"> • 802.11b: +14dBm minimum • 802.11g: +12dBm minimum • 802.11a: +12dBm minimum • 802.11n HT20(2.4GHz): +12dBm minimum • 802.11n HT40(2.4GHz): +12dBm minimum • 802.11n HT20(5GHz): +10dBm minimum • 802.11n HT40(5GHz): +10dBm minimum • 802.11ac VHT80(5GHz): +10dBm minimum
Power Consumption	Transmit mode: 2.0 W Receive mode: 1.6 W Idle mode (PSP)180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connected Standby/Modern Standby: 10mW Radio disabled: 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display

Technical Specifications

	enclosure
	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm
Weight	Type 2230: 2.8g
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (–10° to 70° C) Non-operating –40° to 176° F (–40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth® Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps Signaling data rate ¹ BLE: 1 Mbps Signaling data rate ¹ 1. Actual throughput may vary.
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
	Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Technical Specifications

Realtek RTL8723DE 802.11 bgn (1x1) WLAN and Bluetooth® 4.2 Combo Adapter¹	Wireless LAN Standards	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	802.11b/g/n • 2.402 – 2.482 GHz
	Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 7, (20MHz, and 40MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM
	Security³	<ul style="list-style-type: none"> • IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power²	<ul style="list-style-type: none"> • 802.11b: +14dBm minimum • 802.11g: +12dBm minimum • 802.11n HT20(2.4GHz): +12dBm minimum • 802.11n HT40(2.4GHz): +12dBm minimum
	Power Consumption	<ul style="list-style-type: none"> • Transmit mode 2.0 W • Receive mode 1.6 W • Idle mode (PSP)180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby 10mW • Radio disabled 8 mW
	Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
	Receiver Sensitivity⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11g, 6Mbps: -86dBm maximum 802.11g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum
	Antenna type	High efficiency antenna. One embedded dual band 2.4/5 GHz antenna is provided to the card to support WLAN communications and Bluetooth communications
	Form Factor	PCI-Express M.2 MiniCard

Technical Specifications

Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm	
Weight	Type 2230: 2.8g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating	14° to 158° F (–10° to 70° C)
	Non-operating	–40° to 176° F (–40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED White – Radio ON	

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth® Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH)
	BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps Signaling data rate ¹
	BLE: 1 Mbps Signaling data rate ¹

1. Actual throughput may vary.

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Technical Specifications

Realtek RTL8821CE 802.11 ac 1x1 WLAN and Bluetooth® 4.2 Combo Adapter (MU-MIMO supported)¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	802.11b/g/n •2.402 – 2.482 GHz 802.11a/n •4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz •5.825 – 5.850 GHz
	Data Rates	•802.11b: 1, 2, 5.5, 11 Mbps •802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) •802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security³	<ul style="list-style-type: none"> • IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through CCX4 and CCX Lite • WAPI
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power²	<ul style="list-style-type: none"> • 802.11b: +14dBm minimum • 802.11g: +12dBm minimum • 802.11a: +12dBm minimum • 802.11n HT20(2.4GHz): +12dBm minimum • 802.11n HT40(2.4GHz): +12dBm minimum • 802.11n HT20(5GHz): +10dBm minimum • 802.11n HT40(5GHz): +10dBm minimum • 802.11ac VHT80(5GHz): +10dBm minimum
	Power Consumption	<ul style="list-style-type: none"> • Transmit mode 2.0 W • Receive mode 1.6 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated)

Technical Specifications

	<ul style="list-style-type: none"> •Connected Standby 10mW •Radio disabled 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum
Antenna type	High efficiency antenna. One embedded dual band 2.4/5 GHz antenna is provided to the card to support WLAN communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm
Weight	Type 2230: 2.8g
Operating Voltage	3.3v +/- 9%
Temperature	Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF LED White – Radio ON
HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology	
Bluetooth® Specification	4.0/4.1/4.2 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)

Technical Specifications

Signaling Data Rate

Legacy: 3 Mbps Signaling data rate¹

BLE: 1 Mbps Signaling data rate¹

1. Actual throughput may vary.

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power

The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Technical Specifications

Realtek RTL8822CE	Wireless LAN Standards	<ul style="list-style-type: none"> IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
802.11ac 2x2 Wi-Fi + BT5		
	Interoperability	Wi-Fi® certified
	Frequency Band	<ul style="list-style-type: none"> •802.11b/g/n 2.402 – 2.482 GHz •802.11a/n/ac 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	Data Rates	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) • 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz & 80MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security³	<ul style="list-style-type: none"> •IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only •AES-CCMP: 128 bit in hardware •802.1x authentication •WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. •WPA2 certification •IEEE 802.11i •WAPI
	Network Architecture	Ad-hoc (Peer to Peer)
	Models	Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power²	<ul style="list-style-type: none"> • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum

Technical Specifications

Power Consumption	<ul style="list-style-type: none"> • 802.11ac VHT160(5GHz): +11.5dBm minimum • Transmit mode 2.0 W • Receive mode 1.6 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby/Modern Standby: 10mW • Radio disabled 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
Form Factor	Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications PCI-Express M.2 MiniCard with CNVi Interface
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	Type 2230: 2.8 g Type 126: 1.3 g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (-10° to 70° C) Non-operating: -40° to 176° F (-40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF LED OFF – Radio ON
HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology	
Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant
Frequency Band	2402 to 2480 MHz
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
Signaling Data Rate	Legacy: 3 Mbps Signaling Data Rate 2.17 Mbps

Technical Specifications

	BLE: 1 Mbps Signaling Data Rate 0.2 Mbps 1. Actual throughput may vary.
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.

2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

3. Check latest software/driver release for updates on supported security features.

Technical Specifications

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® and Bluetooth® 5.0¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi CERTIFIED™
	Frequency Band	<ul style="list-style-type: none"> •802.11b/g/n 2.402 – 2.482 GHz •802.11a/n/ac 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz
	Data Rates	<ul style="list-style-type: none"> •802.11b: 1, 2, 5.5, 11 Mbps •802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps •802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) •802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, 80MHz & 160MHz)
	Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
	Security³	<ul style="list-style-type: none"> •IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only •AES-CCMP: 128 bit in hardware •802.1x authentication •WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. •WPA2 certification •IEEE 802.11i •WAPI
	Network Architecture	Ad-hoc (Peer to Peer)
	Models	Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power²	<ul style="list-style-type: none"> • 802.11b: +18.5dBm minimum • 802.11g: +17.5dBm minimum

Technical Specifications

	<ul style="list-style-type: none"> • 802.11a: +18.5dBm minimum • 802.11n HT20(2.4GHz): +15.5dBm minimum • 802.11n HT40(2.4GHz): +14.5dBm minimum • 802.11n HT20(5GHz): +15.5dBm minimum • 802.11n HT40(5GHz): +14.5dBm minimum • 802.11ac VHT80(5GHz): +11.5dBm minimum • 802.11ac VHT160(5GHz): +11.5dBm minimum
Power Consumption	<ul style="list-style-type: none"> • Transmit mode 2.0 W • Receive mode 1.6 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby/Modern Standby: 10mW • Radio disabled 8 mW
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Receiver Sensitivity⁴	802.11b, 1Mbps: -93.5dBm maximum 802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum
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Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF LED OFF – Radio ON

HP Integrated Module with Bluetooth 4.0/4.1/4.2/5.0 Wireless Technology



Technical Specifications

Bluetooth Specification	4.0/4.1/4.2/5.0 Compliant
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	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)
Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 4 dBm for BR and EDR.
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW
Electrical Interface	USB 2.0 compliant
Bluetooth Software Supported	Microsoft Windows Bluetooth Software
Link Topology	
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
Power Management Certifications	ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
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Technical Specifications

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Realtek Ethernet (10/100/1000)

Ethernet Features

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)
 Auto-Negotiation (Automatic Speed Selection)
 Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
 IEEE 802.1p QoS (Quality of Service) Support
 IEEE 802.1q VLAN support
 IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
 IEEE 802.3az EEE (Energy Efficient Ethernet)
 Jumbo Frame 9K
 Auto MDI/MDIX Crossover cable detection

Power Management

ACPI compliant - multiple power modes
 Situation-sensitive features reduce power consumption
 Advanced link down power saving for reducing link down power consumption

Performance Features

TCP/IP/UDP Checksum Offload (configurable)
 Protocol Offload (ARP & NS)
 Large send offload and Giant send offload
 Receiving Side Scaling

Manageability

Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)
 PXE 2.1 Remote Boot
 Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)
 Comprehensive diagnostic and configuration software suite
 Virtual Cable Doctor for Ethernet cable status

Interface

PCI Express 1.1 to support ASPM L1

NIC Device Driver Name

Realtek PCIe GBE Ethernet Family Controller

Technical Specifications

POWER

HP 65W Smart AC adapter

Dimensions (H x W x D)	90 x 51 x 28.5 mm
Weight	230 g <i>Not including power cord. Power cord varies by country</i>
Input	100 to 240 VAC
Input Efficiency	88.0 % at 115 VAC and 89.0 % at 230VAC
Input frequency range	50~ 60 Hz
Input AC current	Max. 1.7 A at 90 VAC
Output	Output power 65W DC output 19.5V Hold-up time 5ms at 115 VAC input Output current limit The power supply shall limit the maximum steady state output current to an average current of 11 Amperes.
Connector	4.5mm Barrel Type,
Environmental Design	Operating temperature 32°F to 95°F (0°C to 35° C) Non-operating (storage) temperature -4°F to 185°F (-20°C to 85°C) Altitude -4°F to 185°F (-20°C to 85°C) Humidity The power supply can be operated at 5,000 m above sea level Storage Humidity
EMI and Safety Certifications	*CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.

45 W AC adapter

Dimensions (H x W x D)	95 x 40 x 26.5mm
Weight	200 g <i>Not including power cord. Power cord varies by country</i>
Input	100 to 240 VAC
Input Efficiency	87.8 % at 115 VAC and 88.5 % at 230VAC
Input frequency range	50~ 60 Hz
Input AC current	Max. 1.4 A at 90 VAC
Output	Output power 45W DC output 19.5V Hold-up time 5ms at 115 Vac input Output current limit The power supply shall limit the maximum steady state output current to an average current of 8 Amperes.
Connector	4.5mm Barrel Type

Technical Specifications

Environmental Design	Operating temperature	32°F to 95°F (0°C to 35° C)	
	Non-operating (storage) temperature	-4°F to 185°F (-20°C to 85°C)	
	Altitude	-4°F to 185°F (-20°C to 85°C)	
	Humidity	The power supply can be operated at 5,000 m above sea level	
EMI and Safety Certifications	Storage Humidity		
		*CE Mark - full compliance with LVD and EMC directives	
		* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.	
		* MTBF - over 200,000 hours at 25°C ambient condition.	
HP 65 W Smart AC adapter (EM)	Dimensions (H x W x D)	102 x 55 x 30mm	
	Weight	270 g <i>Not including power cord. Power cord varies by country</i>	
	Input	100 to 240 VAC	
	Output	Input Efficiency	88.0 % at 115 VAC and 89.0 % at 230VAC
		Input frequency range	50~ 60 Hz
		Input AC current	Max. 1.7 A at 90 VAC
		Output power	65W
		DC output	19.5V
		Hold-up time	5ms at 115 Vac input
		Output current limit	The power supply shall limit the maximum steady state output current to an average current of 11 Amperes.
	Connector	4.5mm Barrel Type,	
	Environmental Design	Operating temperature	32°F to 95°F (0°C to 35° C)
		Non-operating (storage) temperature	-4°F to 185°F (-20°C to 85°C)
Altitude		The power supply can be operated at 5,000 m above sea level	
Humidity		The power supply shall withstand without degradation with 95% relative humidity, non-condensing, both operating and non-operating.	
EMI and Safety Certifications	Storage Humidity		
		*CE Mark - full compliance with LVD and EMC directives	
		* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.	
		* MTBF - over 200,000 hours at 25°C ambient condition.	
Dimensions (H x W x L)	6.0 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch)		

Technical Specifications

HP 3-cell Li-Ion Long Life - Fast Charge (41 WHr)	Weight	0.18 kg (0.39 lb)
	Cells/Type	3cell Lithium-Ion Polymer cell / 515974
	Voltage	11.34 V
	Amp-hour capacity	3.62 Ah
	Watt-hour capacity	41Wh
	Operating (Charging)	32° to 113° F (0° to 45° C)
	Operating (Discharging)	14° to 122° F (-10° to 60° C)
	Optional Travel Battery Available	No
HP 3-cell Li-Ion Long Life - Fast Charge (41 WHr)	Dimensions	6.0 x 186.85 x 90.2 mm (0.236 x 7.35 x 3.55 inch)
	Weight	0.19 kg (0.41 lb)
	Cells/Type	3cell Lithium-Ion Prismatic cell / 496080
	Voltage	11.55V
	Amp-hour capacity	3.615Ah/3.63Ah
	Watt-hour capacity	41Wh
	Operating (Charging)	32° to 113° F (0° to 45° C)
	Operating (Discharging)	14° to 122° F (-10° to 60° C)
Optional Travel Battery Available	No	

Options and Accessories (sold separately and availability may vary by country)

Category	Description	Part Number
Input/Output	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP 3-Button USB Laser Mouse	H4B81AA
	HP USB Travel Mouse	G1K28AA
	HP Comfort Grip Wireless Mouse	H2L63AA
	HP Ultra Mobile Wireless Mouse	H6F25AA#xxx
	HP HDMI to DVI Adapter	F5A28AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#XXX
	HP 65W Smart AC Adapter	H6Y89AA#xxx
	HP 65W Slim AC Adapter	H6Y82AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Memory	HP 4GB 2666Mhz DDR4	4VN05AA
	HP 8GB 2666Mhz DDR4	4VN06AA
UCC	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP UC Wired Headset	K7V17AA
Displays	HP EliteDisplay S14 14-inch USB-C Portable Monitor	3HX46AA

Summary of Changes

Date of change:	Version History:		Description of change:
June 17, 2020	From V1 to V2		Display section updated
September 2, 2020	From V2 to V3		Processor, network and display sections update
September 21, 2020	From V3 to V4		Storage updated
November 4, 2020	From V4 to V5	Updated	Removed - Intel® Iris® Xe Graphics from processor name and added Iris footnote in graphics section

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Processador Intel® Core™ i3-1005G1

Cache de 4M, até 3,40 GHz

Especificações

[Especificações de exportação](#)

Essenciais

Coleção de produtos	10ª geração de processadores Intel® Core™ i3
Codinome	Produtos com denominação anterior Ice Lake
Segmento vertical	Mobile
Número do processador	i3-1005G1
Status	Launched
Data de introdução	Q3'19
Litografia	10 nm
Condições de uso	PC/Client/Tablet
Preço recomendado para o cliente	\$281.00

Especificações da CPU

Número de núcleos	2
Nº de threads	4
Frequência baseada em processador	1.20 GHz
Frequência turbo max	3.40 GHz
Cache	4 MB Intel® Smart Cache
Velocidade do barramento	4 GT/s
ITDP	15 W
Frequência de TDP Configurável - baixo	900 MHz
ITDP Configurável - baixo	13 W

Informações complementares

Opções integradas disponíveis	Não
Ficha técnica	Ver agora

Especificações de memória

Tamanho máximo de memória (de acordo com o tipo de memória)	<input type="text"/>	64 GB
Tipos de memória	<input type="text"/>	DDR4-3200, LPDDR4-3733
Nº máximo de canais de memória	<input type="text"/>	2
Largura de banda máxima da memória	<input type="text"/>	58.3 GB/s
Compatibilidade com memória ECC †	<input type="text"/>	Não

Gráficos de processador

Gráficos do processador †	<input type="checkbox"/>	Gráficos UHD Intel® para processadores Intel® Core™ da 10ª Geração
Frequência da base gráfica	<input type="text"/>	300 MHz
Máxima frequência dinâmica da placa gráfica	<input type="text"/>	900 MHz
Saída gráfica	<input type="text"/>	eDP/DP/HDMI
Resolução máxima (HDMI 1.4)‡	<input type="text"/>	4096 x 2304@60Hz
Resolução máxima (DP)‡	<input type="text"/>	5120 x 3200@60Hz
Resolução máxima (eDP - tela plana integrada)‡	<input type="text"/>	5120 x 3200@60Hz
Suporte para DirectX*	<input type="text"/>	12
Suporte para OpenGL*	<input type="text"/>	4.5
Intel® Quick Sync Vídeo	<input type="text"/>	Sim
Nº de monitores aceitos †	<input type="text"/>	3
ID do dispositivo	<input type="text"/>	0x8A56

Opções de expansão

Revisão de PCI Express	<input type="text"/>	3.0
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Especificações de encapsulamento

Soquetes suportados	<input type="text"/>	FCBGA1526
Configuração máxima da CPU	<input type="text"/>	1
T _{JUNCTION}	<input type="text"/>	100°C
Tamanho do pacote	<input type="text"/>	50mm x 25mm

Tecnologias avançadas

Intel® Deep Learning Boost (Intel® DL Boost)	<input type="text"/>	Sim
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Compatível com Intel® Optane™ Memory †	<input type="checkbox"/>	Sim
Tecnologia Intel® Speed Shift	<input type="checkbox"/>	Sim
Intel® Thermal Velocity Boost	<input type="checkbox"/>	Não
Tecnologia Intel® Turbo Boost †	<input type="checkbox"/>	2.0
Elegibilidade da plataforma Intel® vPro™ †	<input type="checkbox"/>	Não
Tecnologia Hyper-Threading Intel® †	<input type="checkbox"/>	Sim
Tecnologia de virtualização Intel® (VT-x) †	<input type="checkbox"/>	Sim
Tecnologia de virtualização Intel® para E/S dirigida (VT-d) †	<input type="checkbox"/>	Sim
Intel® VT-x com Tabelas de páginas estendidas (EPT) †	<input type="checkbox"/>	Sim
Intel® TSX-NI	<input type="checkbox"/>	Não
Intel® 64 †	<input type="checkbox"/>	Sim
Conjunto de instruções	<input type="checkbox"/>	64-bit
Extensões do conjunto de instruções	<input type="checkbox"/> Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2, Intel® AVX-512	
Estados ociosos	<input type="checkbox"/>	Sim
Tecnologias de monitoramento térmico	<input type="checkbox"/>	Sim
Programa Intel® da Plataforma de Imagem Estável (SIPP)	<input type="checkbox"/>	Não
Tecnologia Intel® Adaptix™	<input type="checkbox"/>	Sim

Segurança e confiabilidade

Novas instruções Intel® AES	<input type="checkbox"/>	Sim
Chave Segura	<input type="checkbox"/>	Sim
Intel® Software Guard Extensions (Intel®SGX)	<input type="checkbox"/>	Yes with Intel® ME
Intel® OS Guard	<input type="checkbox"/>	Sim
Intel® Trusted Execution Technology †	<input type="checkbox"/>	Não
Bit de desativação de execução †	<input type="checkbox"/>	Sim
Intel® Boot Guard	<input type="checkbox"/>	Sim

Intel Core i3-1005G1 @ 1.20GHz

Price and performance details for the Intel Core i3-1005G1 @ 1.20GHz can be found below. This is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPUMark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

Intel Core i3-1005G1 @ 1.20GHz

Description:

Intel UHD Graphics

Class:

Laptop

Socket:

FCBGA1526

Clockspeed:

1.2 GHz

Turbo Speed:

3.4 GHz

Cores:

2

Threads

: 4

TDP Down:

13 W

Typical TDP:

15 W

Other names: Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz

CPU First Seen on Charts: Q2 2019

CPUmark/\$Price: 18.57

Overall Rank: 927

Last Price Change: [\\$281.00 USD](#) (2019-07-01)

³ Actual CPU performance may differ from the average depending on the CPU power/performance trade off specified by the vendor.

Average CPU Mark



5217

Single Thread Rating: 2289

Cross-Platform Rating: 8676

Samples: 337*

***Margin for error:** Low

[+ COMPARE](#)

PerformanceTest V9

CPU Mark: 6,143 Thread: 2,340

CPU Test Suite Average Results for Intel Core i3-1005G1 @ 1.20GHz

Integer Math	16,010 MOps/Sec
Floating Point Math	9,344 MOps/Sec
Find Prime Numbers	16 Million Primes/Sec
Random String Sorting	7 Thousand Strings/Sec
Data Encryption	2,968 MBytes/Sec

Data Compression	56.2 MBytes/Sec
Physics	349 Frames/Sec
Extended Instructions	4,092 Million Matrices/Sec
Single Thread	2,289 MOps/Sec

From submitted results to PerformanceTest V10 as of 30th of April 2021.

CPU Mark Distribution for Intel Core i3-1005G1 @ 1.20GHz

Submitted Baseline Distribution Graph as of 25th of April 2021

From submitted results to PerformanceTest V10 as of 25th of April 2021.

Search for Intel Core i3-1005G1 @ 1.20GHz
from the Featured Merchants below:



Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

Pricing History

CPU Mark Relative to Top 10 Common Laptop CPUs

As of 30th of April 2021 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 4800H	19,231
Apple M1 8 Core 3200 MHz	14,872
Intel Core i7-10750H @ 2.60GHz	12,584
Intel Core i7-9750H @ 2.60GHz	11,323
AMD Ryzen 5 4500U	11,271
Intel Core i7-8750H @ 2.20GHz	10,186
AMD Ryzen 5 3500U	7,149
Intel Core i7-7700HQ @ 2.80GHz	6,963
Intel Core i3-1005G1 @ 1.20GHz	5,217
Celeron Dual-Core T3500 @ 2.10GHz	786
Celeron Dual-Core T3100 @ 1.90GHz	531

CPU Value (CPU Mark / \$Price)

As of 30th of April 2021 - Higher results represent better value

Processor	CPU Mark / \$Price
Intel Core i7-8750H @ 2.20GHz	25.79
Intel Core i3-1005G1 @ 1.20GHz	18.57
Intel Core i7-7700HQ @ 2.80GHz	18.42
Celeron Dual-Core T3100 @ 1.90GHz	16.59
Intel Core i7-9750H @ 2.60GHz	6.66

Apple M1 8 Core 3200 MHz		NA
Celeron Dual-Core T3500 @ 2.10GHz		NA
AMD Ryzen 5 3500U		NA
AMD Ryzen 7 4800H		NA
AMD Ryzen 5 4500U		NA
Intel Core i7-10750H @ 2.60GHz		NA

Single Thread Rating

As of 30th of April 2021 - Higher results represent better performance

Processor

Average Thread Rating

Apple M1 8 Core 3200 MHz		3,630
Intel Core i7-10750H @ 2.60GHz		2,739
AMD Ryzen 7 4800H		2,660
Intel Core i7-9750H @ 2.60GHz		2,505
AMD Ryzen 5 4500U		2,474
Intel Core i7-8750H @ 2.20GHz		2,348
Intel Core i3-1005G1 @ 1.20GHz		2,289
Intel Core i7-7700HQ @ 2.80GHz		2,072
AMD Ryzen 5 3500U		1,990
Celeron Dual-Core T3500 @ 2.10GHz		870
Celeron Dual-Core T3100 @ 1.90GHz		585

Last 5 Baselines for Intel Core i3-1005G1 @ 1.20GHz

Most recent listed first

Baseline

CPU Mark

BL1400602 - Apr 30 2021		5199
BL1400400 - Apr 30 2021		5311
BL1400273 - Apr 29 2021		5342

BL1399901 - Apr 28 2021	4976
BL1399641 - Apr 27 2021	5519

Popular comparisons for Intel Core i3-1005G1 @ 1.20GHz

As of 30th of April 2021 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i3-1005G1 @ 1.20GHz	5,217
Intel Core i5-6442EQ @ 1.90GHz	4,519
AMD Ryzen 3 3200U	3,965
Intel Core i3-1115G4 @ 3.00GHz	6,324
Intel Core i5-7442EQ @ 2.10GHz	4,834
Intel Core i3-8145UE @ 2.20GHz	4,133
Intel Core i3-10110U @ 2.10GHz	4,056
AMD Athlon 220GE	4,538
AMD Ryzen 3 PRO 3300U	6,060
AMD Ryzen 3 3300U	5,886
Intel Core i5-7440EQ @ 2.90GHz	5,711
AMD Athlon 300U	4,030
AMD Ryzen Embedded R1505G	3,969

Software



Microsoft

Relatório de certificação de hardware **Aprovado**

ID do produto privado: **14255358410705740**

ID do produto compartilhado: **1152921504607617727**

ID da submissão: **1152921504627887052**

Data de submissão: **18/12/2018**

Data de conclusão: **18/12/2018**

Companhia: **HP Inc.**

Nome do produto: **PC Notebook HP 246 G7 Granger18C2_Kabylake_UMA_855A RS5**

Categoria: **Sistema**

Tipo de produto: **Laptop**

Nível de qualificação: **certificado para a família de clientes Microsoft Windows 10 versão 1809, x64**

Nome de marketing: **PC Notebook HP 246 G7 PC Notebook HP 240 G7**

Registro EPEAT

Seu Recurso para Eletrônica Sustentável

PC Notebook HP 240 G7

SUMARIO DE PRODUTOS:

Tipo de produto :	Caderno
País :	Brasil
Fabricante :	HP
Classificação EPEAT :	Prata
Data de inscrição :	2019-04-11
Status do produto :	Ativo

Exceções:

Número (s) de peça do fabricante:

DETALHE DA PONTUAÇÃO DA CLASSIFICAÇÃO EPEAT

Para que um produto seja listado no Registro EPEAT, ele deve, no mínimo, atender aos critérios "necessários" aplicáveis. [Clique aqui](#) para ver uma lista dos critérios necessários para esta categoria de produto.

Este produto atendeu aos critérios necessários.

Along with required criteria, products can also meet optional criteria and score optional points. It is not required for a product to achieve any optional points.

- Products that meet all required criteria and achieve less than 50% of the optional points are rated at **EPEAT Bronze**.
- Products that meet all required criteria and achieve 50 - 74% of the optional points are rated at **EPEAT Silver**.
- Products that meet all required criteria and achieve 75 - 100% of the optional points are rated at **EPEAT Gold**.

The optional criteria for this product category and optional points achieved by this product are listed below.

Optional Criteria	Scores
▼ 4.1 Substance Management	11 / 16
(4.1.2.1) Restrictions of the use of cadmium	1
(4.1.4.1) Restriction of the use of beryllium	1
(4.1.5.2) Further reduction of bromine and chlorine content of plastic materials	0
(4.1.6.1) Avoidance or elimination of substances on EU REACH Annex XIV (authorization list)	1
(4.1.6.2) Reduction of substances on the EU REACH Candidate List of SVHCs	0
(4.1.8.1) Chemical assessment and selection	0
(4.1.9.1) IEC 62474 declarable substances	1
(4.1.9.2) Requesting substance inventory	1
(4.1.9.3) Acquiring substance inventory	2
(4.1.10.1) Reduce fluorinated gas emissions from flat panel display manufacturing	2
(4.1.10.2) Reduce fluorinated greenhouse emissions from semiconductor production	2
▼ 4.2 Materials Selection	0 / 3
(4.2.1.2) Higher post-consumer recycled, ITE-derived post-consumer recycled plastic, or bio-based content	0
(4.2.1.3) Post-consumer recycled, ITE-derived post-consumer recycled plastic	0
▼ 4.4 Product longevity/life-cycle extension	3 / 4
(4.4.1.1) Use of repairable components	1

(4.4.1.2) Long life rechargeable battery	1
(4.4.2.2) Publicly available service information	0
(4.4.2.5) Product upgradeability and repairability	1
(4.4.2.6) Removal of lithium ion batteries	1
▼ 4.5 Energy Conservation	0 / 3
(4.5.1.4) Energy efficiency for external power supplies exceeding International External Power Supply Efficiency Level VI	0
(4.5.1.5) Product energy consumption less than the ENERGY STAR Maximum Energy Limit	0
▼ 4.7 Packaging	1 / 2
(4.7.3.2) Packaging composed of recycled, and/or biobased, and/or sustainably forested content	1
(4.7.4.1) Offering of a bulk packaging option	0
▼ 4.8 Life cycle assessment and carbon footprint	6 / 6
(4.8.1.1) Product life cycle assessment and public disclosure of analyses	2
(4.8.1.2) Product specific greenhouse gas emissions—product carbon footprint	2
(4.8.2.1) Corporate carbon footprint	1
(4.8.2.2) Greenhouse gas emissions from product transport	1
▼ 4.9 Corporate Environmental Performance	7 / 9
(4.9.1.2) Third party certified environmental management system (EMS) for supplier manufacturing facilities	1
(4.9.2.2) Corporate environmental performance reporting by suppliers	1
(4.9.3.1) Energy management system/energy performance improvement – manufacturers	1
(4.9.3.2) Energy management system/energy performance improvement for suppliers	2
(4.9.4.1) Renewable energy use by manufacturer	2
(4.9.4.2) Renewable energy use by manufacturer suppliers	0
▼ 4.10 Corporate social responsibility	1 / 6
(4.10.1.1) Socially responsible supplier manufacturing: Labor	0
(4.10.1.2) Socially responsible manufacturing: OHS	0
(4.10.2.2) Participation in an in-region program that advances responsible sourcing of conflict minerals	1
(4.10.2.3) Smelter and refiner participation in OECD-aligned third party mechanisms	0

Total Optional Criteria Score

29 / 49

Please note that it is not required for a product to achieve any optional points.

Alguns critérios opcionais podem não ser aplicáveis a um produto. Os critérios opcionais que não são aplicáveis (N / A) ao produto não estão incluídos na Pontuação total de critérios opcionais e não estão refletidos acima.

Para qualquer dúvida, comentário ou feedback sobre o registro EPEAT, entre em [contato conosco \[mailto:lfernandez@greenelectronicscouncil.org\]](mailto:lfernandez@greenelectronicscouncil.org).



HP - HP 14 Laptop PC ENERGY STAR : 14-ck

Specifications

Brand Name:	HP
Model Name:	HP 14 Laptop PC ENERGY STAR
Model Number:	14-ck
Type:	Notebook
Category 1: Processor Brand:	Intel
Category 1: Processor Name:	Core i7
Category 1: Base Processor Speed Per Core (GHz):	1.8
Category 1: Physical CPU Cores (count):	4
Category 1: System Memory (GB):	16.0
Category 1: Graphics Category:	G2
Category 1: Default Low-power Mode:	Sleep Mode
Category 1: Long Idle Power Used for Sleep Mode:	No
Category 1: Off Mode (watts):	0.2
Category 1: Sleep Mode (watts):	0.4
Category 1: Long Idle (watts):	2.1
Category 1: Short Idle (watts):	5.2
Category 1: Base TEC Allowance (kWh):	8
Category 1: Functional Adder Allowances (kWh):	12.9
Category 1: TEC of Model (kWh):	17.0
Notebooks, Desktops, Integrated Computers, Slate/Tablets, Two-in-one Notebooks, and Portable All-in-ones Category for TEC (Typical Energy Consumption) Criteria:	1
Category I1: Processor Brand:	Intel
Category I1: Processor Name:	Core i7
Category I1: Operating System Name:	Windows 10 Home
Category I1: Base Processor Speed Per Core (GHz):	1.8
Category I1: System Memory (GB):	16.0
Category I1: Graphics Category:	G2
Category I1: Default Low-power Mode:	Sleep Mode

Category I1: Long Idle Power Used for Sleep Mode:	No
Category I1: Off Mode (watts):	0.2
Category I1: Sleep Mode (watts):	0.4
Category I1: Long Idle (watts):	2.1
Category I1: Short Idle (watts):	5.2
Category I1: Base TEC Allowance (kWh):	8
Category I1: Functional Adder Allowances (kWh):	12.9
Category I1: TEC of Model (kWh):	17.0
Sleep Mode Default Time Upon Shipment (min.):	20
Display Sleep Mode Default Time Upon Shipment (min.):	10
WOL (Wake on LAN) From Sleep:	Shipped Disabled
Will the Speed of Any Active 1 GB/s or Higher Ethernet Network Links be Reduced to Less Than 1 GB/s When Transitioning to Sleep or Off Mode?:	Yes
Ethernet Capability:	Yes
Date Available On Market:	2018-04-20
Date Certified:	2019-04-09
Markets:	United States, Switzerland, Taiwan, Japan, Canada
ENERGY STAR Certified:	Yes

Additional Model Information

HP 14g Laptop PC ENERGY STAR,; HP 14q Laptop PC ENERGY STAR,; HP 240 G7 ENERGY STAR,14q-cs,; HP 240 G7 Notebook PC ENERGY STAR,14g-cr,; HP 246 G7 ENERGY STAR,HP 246 G7, 14-di,; HP 246 G7 Notebook PC ENERGY STAR,HP 240 G7,; HP Laptop ENERGY STAR,14t-ck,

Captured On:
11/25/2019


THE ECO DECLARATION



Ecma/TC38-TG3/2015/026
(Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.


Brand *	HP	Logo 
Company name *	HP	
Contact information * e-mail address	HP Sustainability and Compliance Center sustainability@hp.com	
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	Notebook PC
Commercial name *	HP 240 G7 Notebook PC
Model number *	240 G7
Issue date *	11/1/2018
Intended market *	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:
P4.1 – P4.3 Consumable materials
P9.1 TEC and Print speed
P10.2 - P10.3 Chemical emissions from printing products
P11.1 - P11.3 Consumable materials for printing products.

Model number *	240 G7	Logo	
Issue date *	11/1/2018		

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
P1 Hazardous substances and preparations				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2 Batteries				
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3 Conformity verification & Eco design (ErP)				
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): http://www8.hp.com/uk/en/certifications/technical/regulations-certificates.html sustainability@hp.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; <input type="checkbox"/> given in item P15 or added to this document, <input type="checkbox"/> available at (add URL):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5 Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P6 Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Model number *	240 G7	Logo
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NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Product environmental attributes - Market requirements (See General NOTE GN below)		Requirement met		
- Environmental conscious design		Yes	No	n.a.
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.			
P7 Design				
Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.9	Spare parts are available after end of production for: 5 years			<input type="checkbox"/>
P7.10	Service is available after end of production for: 5 years			<input type="checkbox"/>
Material and substance requirements				
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: >PC+ABS< Material type: Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Insulation materials of internal electrical cables are PVC free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input checked="" type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: PC+ABS +35%PCR, PC+ABS +50%PCR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> (See NOTE B3), Other; chemical name: , CAS #: Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(40)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: PC+ABS +35%PCR, PC+ABS +50%PCR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database (See note B5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 2.0% . or b) The weight of recycled material is g.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	240 G7	Logo	
Issue date *	11/1/2018		


Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.

Material and substance requirements (continued)						
P7.21*	Biobased plastic material content is used in the product (See NOTE B7): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8 Batteries						
P8.1*	Battery chemical composition: <i>lithium ion,</i>			<input type="checkbox"/>		
P9 Energy consumption (See NOTE B8)						
P9.1 For the product the following power levels or energy consumptions are reported:						
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *	<input type="checkbox"/>	
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W	<i>EPS Energy Report Data</i>	<input checked="" type="checkbox"/>	
PTEC * Typical Energy Consumption	W	W	W	<i>ENERGY STAR® Program Requirements for Computers: Ver. 6.1</i>	<input checked="" type="checkbox"/>	
ETEC * Annual Energy Consumption	<i>11.04</i> kWh/year	<i>11.42</i> kWh/year	<i>11.20</i> kWh/year	<i>ENERGY STAR® Program Requirements for Computers: Ver. 6.1</i>	<input type="checkbox"/>	
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : <i>VI</i>				<i>ENERGY STAR® Program Requirements for Computers: Ver. 6.1</i>	<input type="checkbox"/>	
Display resolution * : <i>1920*1080</i> megapixels				<i>ENERGY STAR® Program Requirements for Computers: Ver. 6.1</i>	<input type="checkbox"/>	
Default time to enter energy save mode: minutes				<i>ENERGY STAR® Program Requirements for Computers: Ver. 6.1</i>	<input checked="" type="checkbox"/>	
P9.2*	Information about the energy save function is provided with the product.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P9.3	Energy efficiency class (monitors only):					<input checked="" type="checkbox"/>
P10 Emissions						
Noise emission – Declared according to ISO 9296 (See NOTE B9)						
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)			
	Idle	<i>* Fans on, HDD spinning (if applicable)</i>	<i>* 3.0</i>			
	Operation	<i>* Fans on, HDD spinning</i>	<i>* 3.0</i>			
	Other mode					
Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input checked="" type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)						

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B9 A Guidance document on Acoustic Noise is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

Model number *	240 G7	Logo	
Issue date *	11/1/2018		

Product environmental attributes - Market requirements (continued) **Requirement met**

Item Yes No n.a.

Electromagnetic emissions

P10.4 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):

P12 Ergonomics for computing products

P12.1* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.

P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410.

P13 Packaging and documentation

P13.1* Product packaging material type(s): **PAPER/Corrugated** weight (kg): **0.256**
 Product packaging material type(s): **PLASTIC/Polyethylene Expanded - EPE** weight (kg): **0.041**
 Product packaging material type(s): **PLASTIC/Polypropylene - PP** weight (kg): **0.003**
 Product packaging material type(s): **PLASTIC/Polyethylene low density - LDPE** weight (kg): **0.013**

P13.2* Product plastic primary packaging is free from PVC.

P13.3* For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: **0** %

P13.4* Specify media for user and product documentation (tick box):
 Electronic , Paper , Other

P13.5 (Please only complete this item if paper documentation used)
 User and product documentation on paper media is chlorine-free:
 If Yes, please specify:
 Totally chlorine-free
 Elemental chlorine-free
 Processed chlorine-free

P14 Voluntary programs

P14.1 The product meets the requirements of the following voluntary program(s):
 ENERGY STAR® Criteria version: **6.1** Date: **4/20/2018** Product category: **Consumer Notebooks**
 Eco-label: **EPEAT** Criteria version: **IEEE 1680.1** Date: **4/20/2018** Product category: **Consumer Notebooks**
 Eco-label: Criteria version: Date: Product category:

P15 Additional information (See NOTE B10)

P9 Energy consumption of computer products; description of the tested product configuration:

All Sections **1. Product environmental information contained in this declaration is valid as of the date the declaration is published. Changes to external standards referenced in the IT Eco-Declaration may invalidate some information contained in this declaration over**

P1 **1. This product does not include DEHP, BBP, DIBP, or DBP.**

P9 1. European Union Commission Regulation 1275/2008- Energy Efficiency Information:

Mode / Condition	Power Consumption in Watts at 230 VAC Input Voltage	Default Time to Mode / Condition (if applicable)
Off Mode (if applicable)		Not Applicable
Standby Mode (if applicable)	Not Applicable	Not Applicable
Network Standby / Sleep / Long Idle Mode if all wired network ports are connected and all wireless network ports are activated (if applicable)		
Network Standby / Sleep / Long Idle Mode (if applicable)		

2. European Union Commission Regulation 1275/2008- Wireless Network Instructions:
 Where applicable, activate and deactivate a wireless network using the instructions provided in the product user guide or the operating system. Information is also available at www.hp.com/support.

P10 Sound Pressure Level

Noise emission – Declared according to ISO 9296 (See NOTE B9)

P10.1	Mode	Mode description
-------	------	------------------


NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

		Statistical upper limit A-weighted sound pressure level, $L_{pA,m}$ (dB)	
Idle	* <i>Fans on, HDD spinning (if applicable)</i>	* 17	<input type="checkbox"/>
Operation	* <i>Fans on, HDD spinning</i>	* 19	<input type="checkbox"/>
Other mode			
Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input checked="" type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)			

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII)	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Company environmental profile - THE ECO DECLARATION

Brand	HP	
Company name *	HP	
Contact information *	HP Sustainability and Compliance Center (SCC) sustainability@hp.com	
Internet site *	www.hp.com/hpinfo/globalcitizenship/environment/index.html	
Issue date *	2014-06-01	
Intended market *	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other	
Additional information		

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under C7.

Company environmental profile - Legal requirements		Requirement met		
Item		Yes	No	n.a.
C1	Product recycling			
C1.1*	The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (see legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C2	Battery recycling			
C2.1*	The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee where required.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C3	Packaging recycling			
C3.1*	The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (see legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Company environmental profile - Market requirements		Requirement met		
Item		Yes	No	n.a.
C4	Environmental policy and environmental management			
C4.1*	The company has a documented environmental policy approved by the management.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4.2*	The company has an environmental management system covering: Product development Manufacturing If so certified according to: <input checked="" type="checkbox"/> ISO 14001 <input checked="" type="checkbox"/> Other as specified in C7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C4.3	The company regularly publishes an environmental report. If so, it meets the recommendations of <input checked="" type="checkbox"/> The Global Reporting Initiative <input type="checkbox"/> Other as specified in C7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C5	Recycling			
C5.1*	Information about the product, battery & packaging take back system (C1, C2 and C3) is available in printed or electronic format.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
C6	Voluntary programs			
C6.1	The company meets the requirements of the following voluntary program/s: Voluntary Agreement: Criteria version: Date: Product category: Voluntary Agreement: Criteria version: Date: Product category:			
C7	Additional information			
	<p><i>HP has received ISO 14001 certification for its manufacturing operations (Worldwide Manufacturing of Computing and Imaging Products and Related Operations) and for product design for its Personal Systems Products and LaserJet and Enterprise Printing Products. The product design certifications include HP-wide product environmental design processes (such as HP's General Specification for the Environment) that cover all HP products.</i></p> <p><i>HP is committed to responsible business practices and transparency in its global citizenship policies and performance. We have a long history of working with suppliers to monitor and improve their social and environmental responsibility (SER) performance when required, as well as improving standards in the industry. HP endorses the EICC Code of Conduct in its entirety, and we have supplemented it with additional requirements specific to freedom of association as well as HP's Student and Dispatch Worker Guidance Standard for Supplier Facilities in the People's Republic of China (PRC). HP also has a strong Global Human Rights Policy in place. HP expects its suppliers to establish policies and processes regarding conflict minerals. HP conducts due diligence on its supply chain annually including requesting information about our suppliers' own due diligence and the smelters and refiners used. HP was the first IT company to publish its supply chain smelter list. HP follows the Global Reporting Initiative (GRI) guidelines as a basis for reporting. The GRI index provides easy reference to HP's Living Progress Report (LPR) content. HP offers take back services of products and printing suppliers in some 70 countries. Please refer to HP's Living Progress Report for more details on our global efforts.</i></p>			

Legal references Europe Annex A

Reference	Declaration item
Directive 2012/19/EU (WEEE directive)	C1.1
Directive 2006/66/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	C2.1
Directive 2004/12/EC (Packaging Directive)	C3.1
Decision 97/129/EC (Secondary packaging legislation)	C3.1



HP Sales Central

Suporte a hardware HP 3 anos próximo dia útil no local apenas para notebooks (U9BA7E)

Ativo desde 01/02/2016



HP Care Pack

Visão geral

Quando problemas de hardware aparecem, quanto antes tudo voltar a funcionar, melhor. Conte com nossa experiência com o serviço HP de hardware no local no próximo dia útil¹ e melhore amplamente o tempo de disponibilidade de seu produto. Com assistência remota de alta qualidade ou suporte conveniente no local disponível no próximo dia útil, você dispõe de ajuda sempre que precisar para poder voltar ao trabalho.

A ajuda está na linha - ou à sua porta

Nossos especialistas de suporte estão sempre prontos para auxiliá-lo em qualquer situação, seja remotamente por telefone ou pessoalmente.

Suporte com o qual você pode contar

Saiba que seu hardware ficará como se fosse novo assim que possível, graças a nosso conhecimento especializado e eficiência em serviço e suporte.

Estaremos presentes no próximo dia útil¹

Reparos presenciais, peças e serviços chegam à sua porta exatamente no dia útil seguinte. Nossos especialistas estão a postos nove horas por dia, cinco dias por semana.¹

- **Suporte e diagnóstico remotos de problemas**
Suporte de hardware no local, no próximo dia útil[1]
Materiais e peças de substituição incluídos
- **Gerenciamento e procedimentos formais de encaminhamento**
Acesso a ferramentas e informações de suporte eletrônico
Suporte e acesso remoto ao sistema HP

Especificações

Tipo de suporte

Reparo no local

Duração

3 anos

Tempo de resposta

Resposta no dia útil seguinte

Período de cobertura

Dias úteis padrão - 9 horas

Local de serviço

No local

Método do serviço

Reparo no local

Cobertura da garantia

Dentro da garantia

Informações adicionais

Exclui monitor externo

Visão geral

- 1 Os níveis dos serviços e o tempo de resposta dos HP Care Packs podem variar dependendo de sua localização geográfica. O serviço é iniciado na data de aquisição do hardware. Restrições e limitações se aplicam. Para mais detalhes, visite www.hp.com/go/cpc. Os serviços HP são regidos pelos termos e condições da HP aplicáveis aos serviços fornecidos ou indicados ao cliente no momento da compra. O cliente pode ter direitos estatutários adicionais, conforme as leis locais aplicáveis, e tais direitos não são afetados de nenhuma forma pelos termos e condições da HP para serviços ou pela garantia limitada HP fornecida com o seu produto HP.

Especificações detalhadas

Características de serviço, cabeçalho

Acesso a ferramentas e informações de suporte eletrônico

Características de serviço, cabeçalho

Gerenciamento e procedimentos formais de encaminhamento

Características de serviço, cabeçalho

Materiais e peças de substituição incluídos

Características de serviço, cabeçalho

Suporte de hardware no local, no próximo dia útil[1]

Características de serviço, cabeçalho

Suporte e acesso remoto ao sistema HP

Características de serviço, cabeçalho

Suporte e diagnóstico remotos de problemas

Cobertura da garantia

Dentro da garantia

Código UNSPSC

81111812

Duração

3 anos

Informações adicionais

Exclui monitor externo

Local de serviço

No local

Método do serviço

Reparo no local

Número de publicação de folheto de especificações

4AA5-6385

Período de cobertura

Dias úteis padrão - 9 horas

Período de cobertura (mês)

36

Tempo de resposta

Resposta no dia útil seguinte

Tipo Care Pack

Eletrônico

Tipo de garantia

S

Tipo de suporte

Reparo no local



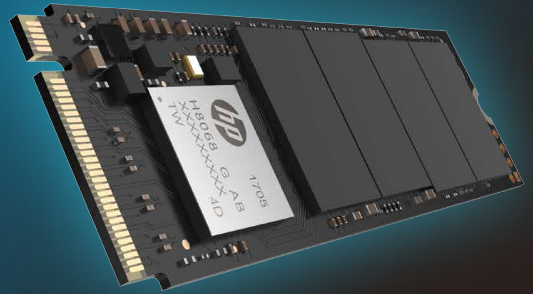
HP SSD EX900 M.2 PCIe

HP SSD EX900 M.2 is a new generation SSD with ultra-high performance that supports PCIe Gen3x4 interface and new NVMe 1.3 specification. With read and write speed as high as 2100MB/s and 1500MB/s respectively, it is the key for high speed in gaming notebooks and advanced desktops to meet the demand for ultra-high performance and reliability of advanced hardware players, e-gamers and professional media producers.

Interface:
PCIe Gen3 x 4

Form Factor:
M.2 2280

Capacity:
120GB/250GB/500GB



Product Features

> HP High-end Controller with 4 Channels

Configured with an HP Controller offering 4 flash memory channels, EX900 supports PCIe Gen3(8Gb/s)x4 and new NVMe1.3 specification. The performance of SSD is further improved to bring the potential of PCs into full play and improve system responsiveness.

> Adopt 3D Nand Flash

EX900 adopts 3D NAND Flash, offering better storage density and reliability than general 2D Flash. With the high performance and reliability, EX900 is applicable as both a system disk and a data storage disk.

> Excellence in reliability

EX900 series supports NCQ full-speed command queues and TRIM instructions to provide continuous and fast response to notebooks and PCs. The NANDX-tend ECC technology of EX900 greatly enhances the durability and data storage ability of NAND, meeting the expectation of workers with high demands.

> Make the data more secure

HP secure end to end internal firmware and professional-level security key write process can effectively protect against viruses and hacks. HP EX900 series offer a 3-year limited warranty with HP brand quality assurance.

Applications

With a size of 22x80x2.4mm (2280), EX900 M.2 SSD is a new storage solution with ultra-high performance, lower latency and power consumption. Compatible with Intel and AMD new generation motherboard architecture, EX900 unleashes the potential of computers and is applicable to notebooks and desktops with PCIe M.2 interface.

HP SSD Advantage

With continuously improved storage technology, HP SSD provides customers with the latest storage solution of high performance in the server and consumer market. HP SSD can improve the performance of your entire system, providing: superior performance, improved start-up time, faster application load times, longer battery life, and better system reliability. As the leader in the PC industry, HP SSD quality assurance begins at the R & D design stage and continues through the whole production process. Quality is designed into every product in accordance with HP's corporate philosophy. HP SSD series fully supports HP computer DST self-test to ensure that the product will seamlessly support all HP branded PC systems. By the same token, since HP computers use the majority of contemporary computer platforms, the HP SSD is a highly compatible drive regardless of PC brand. HP has an excellent global network of service outlets to support users with questions about the product. We also offer a toll-free customer support hotline, and you can find more details from our HP website.



EX900 M.2 PCIe

Specifications

Specifications	HP SSD EX900 M.2		
	120GB	250GB	500GB
Interface/Protocol			
HP SSD EX900 M.2 2280	PCIe Gen 3(8Gb/s) x 4, NVMe 1.3	PCIe Gen 3(8Gb/s) x 4, NVMe 1.3	PCIe Gen 3(8Gb/s) x 4, NVMe 1.3
Performance (4KB QD32)			
Max. Sequential Read (MB/s)	1900	2100	2100
Max. Sequential Write (MB/s)	650	1300	1500
Max. Random Read (IOPS)	100K	125K	100K
Max. Random Write (IOPS)	80K	110K	80K
Power Consumption			
Power Consumption (Active) (W)	2.46	2.99	3.52
Power Consumption (Idle) (W)	0.68	0.68	0.68
DEVSLP (mW)	5	5	5
Reliability			
MTBF	up to 2.0 Mhours		
Environmental			
Non-Operating Temperature	-40° C to 85° C		
Operating Temperature	0° C to 70° C		
Max Shock Resistance	100 G/6 msec		
Max Vibration Resistance	3.1G RMS (2-500 Hz)		
Certificates	CE, CB, FCC, cTUVus, KCC, BSMI, VCCI, RoHS, RCM		
Limited Warranty	3 years or 70 TBW	3 years or 100 TBW	3 years or 200 TBW
Physical Dimensions			
Size	80 x 22 x 2.4 mm		
Weight	< 5.4 g		

Specifications are subject to change without notice.

1. Backward compatible to Gen2 and Gen1.
2. Not all products are sold in all regions of the world.
3. When used to represent storage capacity, 1 megabyte (MB) = 1 million bytes, 1 gigabyte (GB) = 1 billion bytes. Depending on the operating environment, the total capacity that can be used will vary. Used to indicate buffer or cache when 1 megabyte (MB) = 1,048,576 bytes. Used to represent the transmission rate or interface, 1 megabyte/s (MB/s) = 1 million bytes per second, 1 gigabytes per second (Gb/s) = 1 billion bytes per second. The maximum valid value for the SATA 6 GB/s transfer rate is calculated based on the serial ATA specification published by the SATA-IO organization prior to the date of publication of this specification. For more information, please visit www.sata-io.org.
4. Measured using the MobileMark™ 2012 benchmark with DIPM enabled (device-initiated power management).
5. MTBF = Mean Time Between Failures, based on internal tests using the Telcordia stress test.
6. Please visit <https://support.hp.com> for details on warranty service of specific areas.





Processador Intel® Core™ i5-1035G1

Cache de 6M, até 3,60 GHz

Especificações

[Especificações de exportação](#)

Essenciais

Coleção de produtos	10ª geração de processadores Intel® Core™ i5
Codinome	Produtos com denominação anterior Ice Lake
Segmento vertical	Mobile
Número do processador	i5-1035G1
Status	Launched
Data de introdução	Q3'19
Litografia	10 nm
Condições de uso	PC/Client/Tablet
Preço recomendado para o cliente	\$297.00

Especificações da CPU

Número de núcleos	4
Nº de threads	8
Frequência baseada em processador	1.00 GHz
Frequência turbo max	3.60 GHz
Cache	6 MB Intel® Smart Cache
Velocidade do barramento	4 GT/s
ITDP	15 W
Frequência de TDP Configurável - alto	1.20 GHz
ITDP Configurável - alto	25 W
Frequência de TDP Configurável - baixo	700 MHz
ITDP Configurável - baixo	13 W

Informações complementares

Opções integradas disponíveis	Não
-------------------------------	-----

[Ficha técnica](#)[Ver agora](#)

Especificações de memória

Tamanho máximo de memória (de acordo com o tipo de memória)		64 GB
Tipos de memória		DDR4-3200, LPDDR4-3733
Nº máximo de canais de memória		2
Largura de banda máxima da memória		58.3 GB/s
Compatibilidade com memória ECC †		Não

Gráficos de processador

Gráficos do processador †	<input type="checkbox"/>	Gráficos UHD Intel® para processadores Intel® Core™ da 10ª Geração
Frequência da base gráfica		300 MHz
Máxima frequência dinâmica da placa gráfica		1.05 GHz
Saída gráfica		eDP/DP/HDMI
Resolução máxima (HDMI 1.4)‡		4096 x 2304@60Hz
Resolução máxima (DP)‡		5120 x 3200@60Hz
Resolução máxima (eDP - tela plana integrada)‡		5120 x 3200@60Hz
Suporte para DirectX*		12
Suporte para OpenGL*		4.5
Intel® Quick Sync Video		Sim
Nº de monitores aceitos †		3
ID do dispositivo		0x8A56

Opções de expansão

Revisão de PCI Express		3.0
------------------------	--	-----

Especificações de encapsulamento

Soquetes suportados		FCBGA1526
Configuração máxima da CPU		1
T _{JUNCTION}		100°C
Tamanho do pacote		50mm x 25mm

Tecnologias avançadas

Intel® Deep Learning Boost (Intel® DL Boost)	<input type="checkbox"/>	Sim
Compatível com Intel® Optane™ Memory †	<input type="checkbox"/>	Sim
Tecnologia Intel® Speed Shift	<input type="checkbox"/>	Sim
Intel® Thermal Velocity Boost	<input type="checkbox"/>	Não
Tecnologia Intel® Turbo Boost †	<input type="checkbox"/>	2.0
Elegibilidade da plataforma Intel® vPro™ †	<input type="checkbox"/>	Não
Tecnologia Hyper-Threading Intel® †	<input type="checkbox"/>	Sim
Tecnologia de virtualização Intel® (VT-x) †	<input type="checkbox"/>	Sim
Tecnologia de virtualização Intel® para E/S dirigida (VT-d) †	<input type="checkbox"/>	Sim
Intel® VT-x com Tabelas de páginas estendidas (EPT) †	<input type="checkbox"/>	Sim
Intel® TSX-NI	<input type="checkbox"/>	Não
Intel® 64 †	<input type="checkbox"/>	Sim
Conjunto de instruções	<input type="checkbox"/>	64-bit
Extensões do conjunto de instruções	<input type="checkbox"/> Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2, Intel® AVX-512	
Estados ociosos	<input type="checkbox"/>	Sim
Tecnologias de monitoramento térmico	<input type="checkbox"/>	Sim
Programa Intel® da Plataforma de Imagem Estável (SIPP)	<input type="checkbox"/>	Não
Tecnologia Intel® Adaptix™	<input type="checkbox"/>	Sim

Segurança e confiabilidade

Novas instruções Intel® AES	<input type="checkbox"/>	Sim
Chave Segura	<input type="checkbox"/>	Sim
Intel® Software Guard Extensions (Intel®SGX)	<input type="checkbox"/>	Yes with Intel® ME
Intel® OS Guard	<input type="checkbox"/>	Sim
Intel® Trusted Execution Technology †	<input type="checkbox"/>	Não
Bit de desativação de execução †	<input type="checkbox"/>	Sim
Intel® Boot Guard	<input type="checkbox"/>	Sim

Intel Core i5-1035G1 @ 1.00GHz

Price and performance details for the Intel Core i5-1035G1 @ 1.00GHz can be found below. This is made using thousands of [PerformanceTest](#) benchmark results and is updated daily.

- The first graph shows the relative performance of the CPU compared to the 10 other common (single) CPUs in terms of PassMark CPU Mark.
- The 2nd graph shows the value for money, in terms of the CPU Mark per dollar.
- The pricing history data shows the price for a single Processor. For multiple Processors, multiply the price shown by the number of CPUs.

Intel Core i5-1035G1 @ 1.00GHz

Description:

Intel UHD Graphics

Class:

Laptop

Socket:

FCBGA1526

Clockspeed:

1.0 GHz

Turbo Speed:

3.6 GHz

Cores:

4

Threads

: 8

TDP Down:

13 W

TDP Up

: 25 W

Typical TDP:

15 W

Other names: Intel(R) Core(TM) i5-1035G1 CPU @ 1.00GHz

CPU First Seen on Charts: Q2 2019

CPUmark/\$Price: 26.72

Overall Rank: 593

Last Price Change: [\\$297.00 USD](#) (2019-07-07)

³ Actual CPU performance may differ from the average depending on the CPU power/performance trade off specified by the vendor.

Average CPU Mark



7935

Single Thread Rating: 2350

Cross-Platform Rating: 13,539

Samples: 702*

*[Margin for error:](#) Low

[+ COMPARE](#)

[PerformanceTest V9](#)

CPU Mark: 8,630 Thread: 2,332

CPU Test Suite Average Results for Intel Core i5-1035G1 @ 1.00GHz

Integer Math 29,598 MOps/Sec

Floating Point Math 16,781 MOps/Sec

Find Prime Numbers	21 Million Primes/Sec
Random String Sorting	11 Thousand Strings/Sec
Data Encryption	4,529 MBytes/Sec
Data Compression	87.0 MBytes/Sec
Physics	442 Frames/Sec
Extended Instructions	6,087 Million Matrices/Sec
Single Thread	2,350 MOps/Sec

From submitted results to PerformanceTest V10 as of 30th of April 2021.

CPU Mark Distribution for Intel Core i5-1035G1 @ 1.00GHz

Submitted Baseline Distribution Graph as of 26th of April 2021

From submitted results to PerformanceTest V10 as of 26th of April 2021.

Search for Intel Core i5-1035G1 @ 1.00GHz
from the Featured Merchants below:

amazon

newegg

ebay

Note: PassMark Software may earn compensation for sales from links on this site through affiliate programs.

Pricing History

CPU Mark Relative to Top 10 Common Laptop CPUs

As of 30th of April 2021 - Higher results represent better performance

Processor	Average CPU Mark
AMD Ryzen 7 4800H	19,231
Apple M1 8 Core 3200 MHz	14,872
Intel Core i7-10750H @ 2.60GHz	12,584
Intel Core i7-9750H @ 2.60GHz	11,323
AMD Ryzen 5 4500U	11,271
Intel Core i7-8750H @ 2.20GHz	10,186
Intel Core i5-1035G1 @ 1.00GHz	7,935
AMD Ryzen 5 3500U	7,149
Intel Core i7-7700HQ @ 2.80GHz	6,963
Celeron Dual-Core T3500 @ 2.10GHz	786
Celeron Dual-Core T3100 @ 1.90GHz	531

CPU Value (CPU Mark / \$Price)

As of 30th of April 2021 - Higher results represent better value

Processor	CPU Mark / \$Price
Intel Core i5-1035G1 @ 1.00GHz	26.72

Intel Core i7-8750H @ 2.20GHz	25.79
Intel Core i7-7700HQ @ 2.80GHz	18.42
Celeron Dual-Core T3100 @ 1.90GHz	16.59
Intel Core i7-9750H @ 2.60GHz	6.66
Apple M1 8 Core 3200 MHz	NA
Celeron Dual-Core T3500 @ 2.10GHz	NA
AMD Ryzen 5 3500U	NA
AMD Ryzen 7 4800H	NA
AMD Ryzen 5 4500U	NA
Intel Core i7-10750H @ 2.60GHz	NA

Single Thread Rating

As of 30th of April 2021 - Higher results represent better performance

Processor	Average Thread Rating
Apple M1 8 Core 3200 MHz	3,630
Intel Core i7-10750H @ 2.60GHz	2,739
AMD Ryzen 7 4800H	2,660
Intel Core i7-9750H @ 2.60GHz	2,505
AMD Ryzen 5 4500U	2,474
Intel Core i5-1035G1 @ 1.00GHz	2,350
Intel Core i7-8750H @ 2.20GHz	2,348
Intel Core i7-7700HQ @ 2.80GHz	2,072
AMD Ryzen 5 3500U	1,990
Celeron Dual-Core T3500 @ 2.10GHz	870
Celeron Dual-Core T3100 @ 1.90GHz	585

Last 5 Baselines for Intel Core i5-1035G1 @ 1.00GHz

Most recent listed first

Baseline	CPU Mark
BL1400641 - Apr 30 2021	8791
BL1400280 - Apr 29 2021	7164
BL1399930 - Apr 28 2021	7336
BL1399777 - Apr 28 2021	6159
BL1399775 - Apr 28 2021	6208

Popular comparisons for Intel Core i5-1035G1 @ 1.00GHz

As of 30th of April 2021 - Higher results represent better performance

Processor	Average CPU Mark
Intel Core i5-1035G1 @ 1.00GHz	7,935
Intel Core i5-9300H @ 2.40GHz	7,899
Intel Core i5-1035G4 @ 1.10GHz	8,330
Intel Core i5-10300H @ 2.50GHz	8,795
Intel Core i5-8300H @ 2.30GHz	7,551
Intel Core i5-8257U @ 1.40GHz	7,937
Intel Core i5-9400H @ 2.50GHz	8,267
Intel Core i5-1035G7 @ 1.20GHz	8,403
Intel Core i5-8279U @ 2.40GHz	6,558
AMD Ryzen 5 3500U	7,149
Intel Core i7-1065G7 @ 1.30GHz	8,877
Intel Core i5-8350U @ 1.70GHz	6,317
Intel Core i5-10310U @ 1.70GHz	7,036

Contact Info Self help

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Product Information



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Keyword	Part Number	Part Description	CSR	RoHS
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-N/A-				
AC Adapter	IMPORTANT NOTE! »			
 <input type="checkbox"/>	741727-001	Smart AC power adapter (45 watt) - 4.5mm barrel connector, non-power factor correcting (NPFC) - Requires 3-wire AC power cord with C5 connector	A	Compliant/Exempted
Adapter				
-N/A-	701943-001	HDMI to VGA adapter	A	Compliant
Battery				
<input type="checkbox"/>	L11119-855	Assembly-battery 3C 41W 3.6A LI HT030	N	Compliant/Exempted
Bezel				
<input type="checkbox"/>	L23181-001	LCD BEZEL	N	Compliant
Cable (Internal)				
<input type="checkbox"/>	L23182-001	LCD EDP CABLE HD	N	Compliant
<input type="checkbox"/>	L23184-001	TOUCHPAD BOARD CABLE		N Compliant
<input type="checkbox"/>	L23185-001	TOUCHPAD CLICK BOARD CABLE	N	Compliant
<input type="checkbox"/>	L23186-001	CARD READER W/USB BOARD CABLE		N Compliant
<input type="checkbox"/>	L23187-001	HDD CABLE	N	Compliant
<input type="checkbox"/>	L23397-001	eMMC BOARD CABLE		N Compliant
Connector				
<input type="checkbox"/>	L23188-001	DC-IN POWER CONNECTOR	N	Compliant/Exempted
Display				
<input type="checkbox"/>	L23210-001	LCD RAW PANEL 14 HD AG	N	Duty-To-Declare
Drive				
<input type="checkbox"/>	L23223-001	SSD 256GB 2280 M2 SATA3 TLC Granger	N	Compliant/Exempted
Fan				
<input type="checkbox"/>	L23189-001	FAN	N	Compliant/Exempted
Hardware Kit				
<input type="checkbox"/>	L23193-001	TOUCHPAD CLICK BOARD BRACKET	N	Compliant
<input type="checkbox"/>	L23198-001	DUMMY FAN FOR FANLESS		N Compliant
<input type="checkbox"/>	L23219-001	HDD BUMPER	N	Compliant
<input type="checkbox"/>	L23220-001	SCREW KIT		N Not Assigned
<input type="checkbox"/>	L24488-001	SSD BRACKET	N	Compliant
Interface (Module)				
<input type="checkbox"/>	L17365-005	WLAN RT AC 1x1 +BT M.2 223	N	Compliant/Exempted
Optical Unit				

<input type="checkbox"/>	L23237-001	WEBCAM HD	N	Compliant/Exempted
PC Board	<input type="checkbox"/>	L23206-001	MOTHERBOARD/BASE HOOK	N Compliant
PC Board (Interface)	<input type="checkbox"/>	L22586-001	TOUCHPAD Module	N Compliant/Exempted
<input type="checkbox"/>	L23196-001	CARD READER W/USB BOARD	N	Compliant
<input type="checkbox"/>	L23197-001	TOUCHPAD CLICK BOARD	N	Compliant
<input type="checkbox"/>	L24487-001	SSD BOARD	N	Not Assigned
Plastics Kit	<input type="checkbox"/>	L23194-001	LCD HINGES HD	N Compliant
-N/A-	L88007-001	MB/BASE HOOK NEW	N	Compliant
Power Cord	IMPORTANT NOTE!			
<input type="checkbox"/>	L19359-001	Power cord - C5 connector, 1.0m long, STK Conv (Brazil)	A	Not Assigned
Product	-N/A-	1FR94AV	C5 1.0m stkr CNVTL Power Cord	-N/A- Not Assigned
-N/A-	4XB46AV	45 Watt Smart nPFC RA AC Adapter	-N/A-	Duty-To-Declare
-N/A-	4XB69AV	256GB M2 SATA-3 TLC SSD	-N/A-	Compliant/Exempted
-N/A-	4YH52AV	JTB ISK STD Touchpad Imagepad	-N/A-	Not Assigned
-N/A-	4YK54AV	3 Cell 41 WHr Long Life	-N/A-	Compliant/Exempted
-N/A-	5LF89AV	ac 1x1 +BT 4.2 WW	-N/A-	NULL
-N/A-	5NY21AV	14 HD AG LED SVA 220 wHDC slim	-N/A-	NULL
-N/A-	9LY92AV	RCTO Dark Ash Silver PLA MSKT wHDC	-N/A-	NULL
Service Kit	<input type="checkbox"/>	L23191-001	HEATSINK UMA	N NULL
<input type="checkbox"/>	L23221-001	SPEAKER DUAL	N	NULL
Unknown Keyword	<input type="checkbox"/>	L44057-001	SPS-BASE ENCLOSURE DAS	N NULL
<input type="checkbox"/>	L44058-001	SPS-HINGE COVER DAS	N	NULL
<input type="checkbox"/>	L44059-001	SPS-RUBBER KIT DAS	N	NULL
	<input type="checkbox"/>	L44060-201	SPS-TOP COVER DAS W/TP W/KB JTB BRZL	N NULL
<input type="checkbox"/>	L44333-001	SPS-SSD 256GB PCIe NVMe Value	N	NULL
-N/A-	L92609-601	SPS-MB DSC 2GB i3-1011U WIN	N	NULL
-N/A-	L92610-601	SPS-MB DSC 2GB i3-8130U WIN	N	NULL
-N/A-	L92612-601	SPS-MB DSC 2GB i7-10510U WIN	N	NULL
-N/A-	L92613-601	SPS-MB DSC 2GB i3-1005G1 WIN	N	NULL
	-N/A-	L92614-601	SPS-MB DSC 2GB i5-1035G1 WIN	N NULL
	-N/A-	L92615-601	SPS-MB DSC 2GB i7-1065G7 WIN	N NULL
-N/A-	L92620-601	SPS-MB UMA i5-1035G1 WIN	N	NULL
<input type="checkbox"/>	M05456-001	SPS-LCD BACK COVER DAS HD New	N	NULL
<input type="checkbox"/>	M05457-001	SPS-BASE ENCLOSURE DAS New	N	NULL
-N/A-	M05458-001	SPS-CARD READER W/USB BD ICL	N	NULL
-N/A-	M05459-001	SPS-TOUCHPAD CLICK BD ICL	N	NULL
<input type="checkbox"/>	M05460-201	SPS-TOP COVER DAS W/TP W/KB JTB BRZL	N	NULL