

HP EliteBook 865 16 inch G11 Notebook PC Wolf Pro Security Edition (A37F9ET)



Un extraordinario ordenador portátil empresarial

Brinda a tus equipos de alta producción un ordenador que ofrece la potencia del procesador AMD Ryzen™ de próxima generación, HP Wolf Security y las herramientas de colaboración intuitivas que necesitan para trabajar en la anicfio en un entorno híbrido. El ordenador HP EliteBook 865 satisface forma efectiva las demandas de los equipos multitarea de todo el mundo.

Productividad duradera

Potencia tu fuerza de trabajo híbrida con funciones de conferencia mejoradas y un rendimiento basado en IA.

Cámara de 5 MP

Conecta con las personas de una forma más personal gracias a las características de videoconferencia integradas en el HP EliteBook 865 con obturador de privacidad.

Protegido por HP Wolf Security

HP Wolf Security para empresas crea una resistente defensa reforzada por software y permanentemente activa.

Incluye

Navegue sin miedo

Proteja su ordenador de páginas web y lea solo archivos adjuntos de Microsoft Office y PDF con malware, ransomware o virus incorporados con la seguridad ejecutada en el hardware de HP Sure Click.

Se limpia rápidamente gracias a la tecnología inteligente

Atienda rápidamente a los pacientes gracias a la aplicación HP Easy Clean, que desactiva la pantalla táctil, el teclado y el clickpad para que puedan desinfectarse mientras el sistema sigue encendido.

Fácil gestión de la batería

Gestiona y supervisa el rendimiento y el estado de la batería, y personaliza las opciones de carga con el sencillo e intuitivo panel HP Power Manager.

Fast and efficient wireless LAN

The portability of your PC and the reliability of a fast connection determines where you can work. Get a fast and reliable connection in dense wireless environments with gigabit data rate Wi-Fi 6E.

Browse confidently

Help protect your PC from websites and read only Microsoft Office and PDF attachments with embedded malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.

Especificaciones

Sistema operativo	Windows 11 Pro
Familia de procesadores	AMD Ryzen™ 5 8540U Passmark 18391 lanzamiento: Q1' 24 AMD Ryzen™ 5 Processor 8540U 16M Cache up to 4.90 GHz Product Specifications
Procesador	AMD Ryzen™ 5 8540U (aumento máximo del reloj hasta 4,9 GHz, 16 MB de caché L3, 6 núcleos, 12 subprocesos)
Memoria	DDR5-5600 MT/s de 16 GB (1 x 16 GB)
Ranuras de memoria	2 SODIMM
Almacenamiento interno	SSD PCIe® NVMe™ de 512 GB
Gráficos	Integración
Gráficos (integrados)	Gráficos AMD Radeon™ 740M
Pantalla	WUXGA (1920 x 1200) de 16" (40,6 cm), IPS, antirreflectante, 300 nits, 45 % NTSC
Pantalla	16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC
Tamaño de la pantalla (diagonal)	40,6 cm (16")
Tamaño de la pantalla (diagonal)	16"
Sonido	Audio de Poly Studio, altavoces estéreo duales con amplificadores independientes y micrófonos de matriz dual integrados
Dimensiones (An x F x Al)	35,87 x 25,12 x 0,9 cm (frontal); 35,87 x 25,12 x 1,63 cm (posterior) (La medida de la altura frontal se realiza cerca del borde delantero donde comienza la cubierta cónica inferior del chasis. La medida de la altura posterior se realiza cerca del borde posterior donde finaliza la cubierta cónica inferior del chasis.)
Peso	A partir de 1,75 kg (El peso variará según la configuración. No incluye el adaptador de alimentación.)
Teclado	Teclado HP Premium Collaboration: resistente a derrames, con retroiluminación y teclado numérico
Dispositivo señalador	Clickpad compatible con gestos multitáctiles
Dispositivos de entrada	HP Sure Platform; Sensor térmico; Sensor de color adaptativo; HP Tamper Lock; Sensor de efecto Hall
Cámara	Webcam integrada con Dual AryMic, resolución de 5 MP, USB2, WFOV y obturador de privacidad
Puertos	2 USB Type-A con velocidad de señal de 5 Gbps (1 de carga y 1 de alimentación); 1 HDMI 2.1; 1 conector jack combinado de auriculares/micrófono estéreo; 2 Thunderbolt™4 con USB Type-C® con velocidad de señal de 40 Gbps (suministro de energía por USB y DisplayPort™ 2.1); 1 x RJ-45 1 Gbps (El cable HDMI se vende por separado.)
Lector de Tarjetas Inteligentes	Active SmartCard
Dimensiones del embalaje (ancho x fondo x alto)	6,9 x 55,2 x 34,5 cm
Inalámbrico	Tarjeta inalámbrica MediaTek Wi-Fi 6E RZ616 (2x2) y Bluetooth® 5.3
Potencia	Adaptador USB Type-C™ de 65 W
Tipo de batería	3 celdas de larga duración HP, polímero de ion-litio 56 Wh
Etiquetas ecológicas	EPEAT™ Gold certified ENERGY STAR® certified TCO certified
Especificaciones de impacto sostenible	Bajo contenido en halógenos; Embalajes disponibles a granel; El material de embalaje de celulosa de papel moldeada dentro de la caja es 100 % de origen sostenible y reciclable; Tanto el material de embalaje exterior como el corrugado son 100 % de origen sostenible y reciclables; 60 % de plástico reciclado posconsumo; Plástico destinado a acabar en los océanos en la(s) carcasa(s) del altavoz; 65 % de metal reciclado
TPM y SecureBoot	TPM 2.0 y SecureBoot
Soporte del fabricante	Soporte técnico presencial bajo las condiciones de la garantía limitada de 1 año a domicilio, incluyendo piezas y mano de obra. Servicio de 1 año de HP Wolf Pro Security Edition. Para consultar las condiciones, visite https://h20195.www2.hp.com/v2/GetPDF.aspx/4AA8-1150ESE & https://www8.hp.com/h20195/v2/getpdf.aspx/4AA5-7123ESE.pdf
Garantía del fabricante	Opciones de garantía limitada de software de 1 año y 90 días según el país. Las baterías incluyen de forma predeterminada una garantía limitada de un año. Visita http://www.hp.com/support/batterywarranty/ para obtener más información sobre las baterías. El servicio técnico presencial y la cobertura ampliada también se encuentran disponibles. Los servicios HP Care Pack son contratos opcionales de servicio técnico ampliado que van más allá de las garantías limitadas estándar. Para elegir el nivel adecuado de servicio técnico para tu producto HP, utiliza la herramienta de búsqueda de servicios HP Care Pack en: http://www.hp.com/go/cpc .

Accesorios y servicios recomendados para su Ordenador HP

HP dispone de un amplio catálogo de opciones y accesorios testeados para su ordenador HP. Al adquirir estos accesorios de forma conjunta con su ordenador HP, estos accesorios tendrán la misma garantía y soporte técnico que su ordenador.
A través de su distribuidor puede obtener un listado completo de accesorios y servicios que le proporcionen la mejor experiencia y soporte técnico.

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AMD, Ryzen y Radeon son marcas comerciales de Advanced Micro Devices, Inc. Thunderbolt es una marca comercial de Intel Corporation o de sus filiales en Estados Unidos y en otros países. DisplayPort™ y el logotipo de DisplayPort™ son marcas comerciales propiedad de la asociación para estándares electrónicos y de vídeo (VESA) en Estados Unidos y en otros países. USB Type-C® y USB-C® son marcas comerciales registradas de USB Implementers Forum. ENERGY STAR es una marca comercial registrada por la Agencia de Protección Ambiental (EPA) de Estados Unidos. El resto de marcas comerciales son propiedad de sus respectivos propietarios.



Desglose de las evidencias fase 1 para el caso del ordenador portátil

ORDENADOR PORTÁTIL	HP EliteBook 865 G11
CPU	
Procesador	AMD Ryzen™ 5 8540U
Velocidad (GHz)	4.9 GHz frecuencia máxima o turbo
Núcleos físicos	6 núcleos
Fecha de lanzamiento	Q1'24
Puntuación PassMark	18391
Otros dispositivos	
Memoria RAM	16 GB DDR5-5600 MHz
Almacenamiento interno	512 GB SSD NVMe
Sistema Operativo	Windows 11 Pro-64
Tarjeta gráfica	Gráficos AMD Radeon™ 740M:
Nº pantallas soportadas	Integrada + 1 x pantalla externa

Tarjeta de sonido	Integrada
Conectividad inalámbrica	
WiFi	WiFi 6E
Bluetooth	Bluetooth 5.3
Interfaces E/S	
USB 3.0 tipo A	2 x USB 3.1 Tipo A
USB 3.0 tipo C	2 x USB 3.1 Tipo C (DisplayPort + Power Delivery + USB)
Red Ethernet	1 x RJ-45 1 Gbps
Video	HDMI 2.1
Audio E/S	Interfaz de audio jack 3.5 mm
Dock station	NO se suministra dock station
Pantalla	
Tamaño de la pantalla	16 pulgadas
Periféricos	
Teclado español	Teclado español ES-ES
Ratón	Ratón integrado táctil con dos botones
Webcam	Cámara integrada con Dual AryMic, resolución de 5 MP, USB2, WFOV y obturador de privacidad
Lector de tarjetas inteligentes integrado ISO-7816 (DNI-e)	SÍ
Batería	
Batería tipo smartbattery	Batería tipo smart battery
Certificados energéticos	
EPEAT	SI
Energy Star 8.0	SI
TCO	SI
ECMA 370	SI, como ECO Declaration
Certificados de robustez	
Certificación MIL STD 810H	Método de prueba 501.7 Alta temperatura Método de prueba 502.7 Baja temperatura Método de prueba 507.6 Humedad Métodos adicionales: Caída Choque Funcional Vibración (Categoría 4) Vibración (Categoría 5) Vibración (Categoría 24) Polvo Humedad Altitud (Procedimiento I) Altitud (Procedimiento II) Alta Temperatura (Procedimiento I) Alta Temperatura (Procedimiento II) Baja Temperatura (Procedimiento I) Baja Temperatura (Procedimiento II) Choque de Temperatura Arena Congelación/Descongelación Choque de Manipulación en Banco Choque de Peligro de Colisión Choque de Transporte
Seguridad	
Arranque seguro	SÍ
Chip	TPM 2.0

Cámara compatible con reconocimiento facial	NO
Lector de huellas dactilares	SÍ
Otro dispositivo de identificación biométrica	NO

HP ProBook Notebook PC

Test	HP EliteBook 630/640/645/650 G9/G10;655 G10; 630/635 Aero/640/645/660/665 G11	HP EliteBook Ultra G1q/G1q8; HP EliteBook Ultra G1i (HP ZHAN X Ultra 14 G1i AI); X/X Flip G1i; X G1a; 830/840/860/835/845/865 G9/G10/G11; 1040 G9/G10/G11
Tested Under	810H	810H
Drop	Passed	Passed
Functional Shock	Passed	Passed
Vibration (Category 4)	Passed	Passed
Vibration (Category 5)	Passed	Passed
Vibration (Category 24)	Passed	Passed
Dust	Passed	Passed
Humidity	Passed	Passed
Altitude (Procedure I)	Passed	Passed
Altitude (Procedure II)	Passed	Passed
High Temperature (Procedure I)	Passed	Passed
High Temperature (Procedure II)	Passed	Passed
Low Temperature (Procedure I)	Passed	Passed
Low Temperature (Procedure II)	Passed	Passed
Temperature Shock	Passed	Passed
Sand	Passed	Passed
Freeze/Thaw	Passed	Passed
Bench Handling Shock	Passed	Passed
Crash Hazard Shock	Passed	Passed
Transportation Shock	Passed	Passed



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DoC #: HSN-I49C-6- R7

(en) Manufacturer's Name (de) Herstellername (fr) Nom du fabricant (es) Nombre del fabricante	HP Inc.																																							
(en) Manufacturer's Address (de) Adresse des Herstellers (fr) Adresse du fabricant (es) Dirección del fabricante	1501 Page Mill Road, Palo Alto, CA 94303-1112 USA																																							
(en) declare, under its sole responsibility that the product (de) erklärt, dass das Produkt (fr) déclare que le produit (es) declara que el producto																																								
(en) Product Name and Model ^{5.2} (de) Produktname und Modell ^{5.2} (fr) Nom du produit et modèle ^{5.2} (es) Nombre del producto y modelo ^{5.2}	HP EliteBook 865 16 inch G9 Notebook PC; HP EliteBook 865 G9 series; HP EliteBook 865 16 inch G10 Notebook PC; HP EliteBook 865 G10 series; HP EliteBook 865 16 inch G11 Notebook PC; HP EliteBook 865 G11 series																																							
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(en) Product Options (de) Produktoptionen (fr) Options du produit (es) Opciones del producto	(en) Please See ANNEX 1 (de) Siehe Anhang I (fr) Voir l'annexe I (es) Ver Anexo I																																							
(en) conforms to the following Product Specifications and Regulations (de) entspricht den folgenden Produktspezifikationen und Vorschriften (fr) est conforme aux normes et règlements de produit suivants (es) cumple con las siguientes especificaciones y normas de productos																																								
<table><tr><td>(en) Safety / (de) Sicherheit / (fr) Sécurité / (es) Seguridad</td><td>(en) EMC / (de) EMV / (fr) EMC / (es) EMC</td><td>(en) Spectrum / (de) Frequenzspektrum / (fr) Spectre radioélectrique / (es) Espectro radioeléctrico</td></tr><tr><td>IEC 60950-1:2005 +A1:2009 +A2:2013</td><td>EN 55032:2015+A11:2020 Class B</td><td>EN 300 328 V2.2.2</td></tr><tr><td>IEC 62368-1:2014</td><td>EN 55035:2017+A11:2020</td><td>EN 301 893 V2.1.1</td></tr><tr><td>EN 62368-1:2014 +A11:2017</td><td>EN 61000-3-2:2014</td><td>EN 300 440 V2.1.1</td></tr><tr><td>IEC 62368-1:2018</td><td>EN 61000-3-3:2013 +A1:2019</td><td>EN 303 687 V1.1.1</td></tr><tr><td>EN IEC 62368-1:2020 +A11:2020</td><td>EN 60601-1-2:2015 + AMD1:2021</td><td>EN 301 908-1 V15.1.1</td></tr><tr><td>EN 50566:2017</td><td>EN 301 489-1 V2.2.3</td><td>EN 301 908-2 V13.1.1</td></tr><tr><td>EN 50663:2017</td><td>EN 301 489-3 V2.3.2</td><td>EN 301 908-13 V13.2.1</td></tr><tr><td>EN 62479:2010</td><td>EN 301 489-17 V3.2.4</td><td>EN 301 908-25 V15.1.1</td></tr><tr><td>EN 50364:2018</td><td>EN 301 489-19 V2.2.1</td><td>EN 300 330 V2.1.1</td></tr><tr><td></td><td>EN 301 489-52 V1.2.1</td><td>EN 303 413 V1.2.1</td></tr><tr><td></td><td>FCC CFR 47 Part 15</td><td>EN 301 511 V12.5.1</td></tr><tr><td></td><td>ICES-003, Issue 7</td><td></td></tr></table>		(en) Safety / (de) Sicherheit / (fr) Sécurité / (es) Seguridad	(en) EMC / (de) EMV / (fr) EMC / (es) EMC	(en) Spectrum / (de) Frequenzspektrum / (fr) Spectre radioélectrique / (es) Espectro radioeléctrico	IEC 60950-1:2005 +A1:2009 +A2:2013	EN 55032:2015+A11:2020 Class B	EN 300 328 V2.2.2	IEC 62368-1:2014	EN 55035:2017+A11:2020	EN 301 893 V2.1.1	EN 62368-1:2014 +A11:2017	EN 61000-3-2:2014	EN 300 440 V2.1.1	IEC 62368-1:2018	EN 61000-3-3:2013 +A1:2019	EN 303 687 V1.1.1	EN IEC 62368-1:2020 +A11:2020	EN 60601-1-2:2015 + AMD1:2021	EN 301 908-1 V15.1.1	EN 50566:2017	EN 301 489-1 V2.2.3	EN 301 908-2 V13.1.1	EN 50663:2017	EN 301 489-3 V2.3.2	EN 301 908-13 V13.2.1	EN 62479:2010	EN 301 489-17 V3.2.4	EN 301 908-25 V15.1.1	EN 50364:2018	EN 301 489-19 V2.2.1	EN 300 330 V2.1.1		EN 301 489-52 V1.2.1	EN 303 413 V1.2.1		FCC CFR 47 Part 15	EN 301 511 V12.5.1		ICES-003, Issue 7	
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(en) Ecodesign / (de) Öko-Design / (fr) Écoconception / (es) Diseño ecológico Regulation (EU) 2023/826 EN 50564:2011 IEC 62301:2011 RoHS EN IEC 63000:2018																																								
(en) The product herewith complies with the requirements of the following and carries the CE -marking accordingly (de) Das Produkt hiermit entspricht den Anforderungen der folgenden und trägt das entsprechende CE -Kennzeichen (fr) Le produit est conforme aux exigences suivantes et porte le marquage CE en conséquence (es) El producto presente cumple con los requisitos de lo siguiente y conlleva el marcado CE en consecuencia	Radio Equipment Directive 2014/53/EU Ecodesign Directive 2009/125/EU RoHS Directive 2011/65/EU Battery Regulation 2023/1542																																							

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UK ONLY: This product herewith complies with the requirements of the following and carries the UK CA marking.	Radio Equipment Regulations 2017 Ecodesign for Energy-Related Products Regulations 2010 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
(en) Additional Information (de) Zusätzliche Information (fr) Informations complémentaires (es) Información Adicional:	
5.1) (en) This product is assigned a Regulatory Model Number which stays with the regulatory aspects of the design. The Regulatory Model Number is the main product identifier in the regulatory documentation and test reports, this number should not be confused with the marketing name or the product numbers. (de) Für die regulatorischen Aspekte zum Design wurde diesem Produkt eine Regulatorische Modell Nummer zugeordnet. Zur Produktidentifizierung in der regulatorischen Dokumentation und den Prüfberichten wird diese Regulatorische Modell Nummer verwendet und sollte nicht zu Verwechslungen von Marketingnamen oder Produktnummern führen. (fr) A ce produit est assigné un numéro de modèle réglementaire qui est associé avec les aspects réglementaires liés à la conception du produit. Le numéro de modèle réglementaire est le principal identificateur du produit dans la documentation réglementaire et les rapports d'essais, ce nombre ne doit pas être confondu avec le nom commercial ou les numéros de produit. (es) A este producto se asigna un número de modelo regulatorio que cumple con los aspectos regulatorios del diseño. El número de modelo normativo es el identificador principal del producto en la documentación reglamentaria e informes de ensayo, este número no se debe confundir con el nombre comercial o los números del producto.	
5.2) (en) This product was tested in a typical HP environment. (de) Dieses Produkt wurde in einer typischen HP Konfiguration getestet. (fr) Ce produit a été testé dans un environnement typique HP. (es) Este producto se ha probado en un entorno típico de HP.	
(en) The listed Notified Body issued the listed EU-type examination certificate, according to Annex III, for the essential requirement of article 3.2 of the RED Directive. (de) Die aufgeführte angegebene Einrichtung hat das aufgeführte EU-Prüfungszertifikat gemäß Anhang III für die wesentliche Anforderung von Artikel 3.2 der Red Richtlinie herausgegeben. (fr) L'organisme notifié répertorié a délivré le certificat d'examen de type UE répertorié, selon l'annexe III, pour l'exigence essentielle de l'article 3.2 de la directive rouge. (es) El organismo notificado listado emitió el certificado de examen de tipo UE listado, de acuerdo con el Anexo III, para el requisito esencial del Artículo 3.2 de la Directiva Roja.	Notified Body: TIMCO Engineering, Inc. Notified Body Number: 1177 Certificate ID: E1177-243798

Palo Alto, CA
30-04-2024



Gilles Soulard, Manager
Product Compliance Center

(en) Local contact for regulatory topics only (de) Lokale Ansprechpartner für Richtlinien und Bestimmungen (fr) Contact local uniquement pour les réglementations (es) Contacto local únicamente para temas de normativa:	
EU: HP REG 23010, 08028 Barcelona, Spain UK: HP Inc UK Ltd, Regulatory Enquiries, Earley West, 300 Thames Valley Park Drive, Reading, RG6 1PT U.S.: HP Inc., 1501 Page Mill Road, Palo Alto 94304, U.S.A. 650-857-1501 Email: reg@hp.com	www.hp.eu/certificates

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DoC #: HSN-I49C-6- R7

(en) ANNEX I (de) ANHANG I (fr) ANNEXE I (es) ANEXO I	
(en) Regulatory Model Number (RMN) (de) Regulatorische Modell Nummer (RMN) (fr) Numéro de modèle réglementaire (RMN) (es) Número de modelo reglamentario (RMN)	HSN-I49C-6
1 (en) DESCRIPTION 2 (en) OPTION RMN* 1 (de) BESCHREIBUNG 2 (de) RMN OPTION* 1 (fr) DESCRIPTION 2 (fr) RMN OPTION* 1 (es) DESCRIPCIÓN 2 (es) RMN OPCIÓN*	

1	2
Power Adapter	TPN-XA01
	TPN-XA07
	TPN-XA08
	TPN-XA10
	TPN-XA12
	TPN-XA15
	TPN-XA19
	TPN-XA20
	TPN-XA21
	TPN-XA22
	TPN-XA23
	TPN-XA24
	TPN-XA26
	TPN-XA30
	TPN-XA31
	TPN-XA32
Battery Pack	TPN-XB0J
	TPN-XB0K
	TPN-XB0Y
	TPN-XB1S
	HSTNN-XB9X

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CONFORMITÉ / (es) DECLARACIÓN DE CONFORMIDAD**

DoC #: HSN-I49C-6- R7

	HSTNN-XB9Y HSTNN-XB9C HSTNN-XB9Z HSTNN-XB8V HSTNN-XB3B HSTNN-XB3H HSTNN-XB2J HSTNN-XB1D
Transceiver 2,4 and 5 GHz WLAN and BT	RTL8852BE
Transceiver 2,4 and 5/6 GHz WLAN and BT	QCNFA765 RTL8852CE MT7922A22M
WWAN Transceiver, GPS Receiver	L860-GL-16 FM350-GL-16 FM350-GL
WWAN LTE-M (CAT-M1) with GPS	FB520
NFC	XRAV-1

(en) *Where X represents any alpha numeric character.
(de) *Wo X steht für eine beliebige alphanumerische Zeichen
(fr) *Où X représente n'importe quel caractère alphanumérique
(es) *Donde X representa cualquier carácter alfanumérico

HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304 US

Martin Glagla
Email: mglagla@us.tuv.com

March 7, 2024

Attn: Katherine Kim

Confirmation of ENERGY STAR® certification

Type of Equipment: Notebook Computer
Model Name: HP EliteBook 865 16 inch G9 Notebook PC ENERGY STAR;
HP EliteBook 865 16 inch G10 Notebook PC ENERGY STAR;
HP EliteBook 865 16 inch G11 Notebook PC ENERGY STAR
Model Number: HSN-I49C-6
Product Specification: ENERGY STAR Program Requirements for Computers,
Eligibility Criteria Version 8.0
TUV File Number: CN22OJIS 003

Dear Katherine Kim:

This is notification that TUV Rheinland has certified the performance of the
aforementioned product according to the ENERGY STAR® Program Requirements and
will report all required information for the certified product to the U.S. Environmental
Protection Agency (EPA).

The certified product meets ENERGY STAR® eligibility criteria and will be listed on the
ENERGY STAR Qualified Product website if the model is intended for commerce in the
U.S. and/or Canada. You may begin labeling the certified product in accordance to your
ENERGY STAR® Partnership Agreement and Commitments.

Please review the above for accuracy and address desired changes to the below
mentioned contact.

If this product is listed on the ENERGY STAR Qualified Product website it is eligible for
re-testing based on the ENERGY STAR randomly selected 'Verification Testing'
program. In the event your product is randomly selected a separate notification will be
sent out requesting product availability information. This information will be used for
quoting the required 'Verification Testing'. Failure to reply to the product availability
request within 10 business days will result in further action. This may include forfeiture to
use the ENERGY STAR mark and termination of your partner agreement with EPA.
TUV Rheinland offers a broad portfolio of service providing global energy efficiency
testing solutions, including EPA (ENERGY STAR®), Natural Resources Canada
(NRCan), Energy Related Products (ErP) Directive, Europe EcoLabel, and Germany's
Blue Angel Quality Seal as well as Green Services.

If we can be of any further assistance, please do not hesitate to call upon us.

Sincerely,
TUV Rheinland of North America, Inc.

Martin Glagla
Certifier



TUV Rheinland
of North America, Inc.

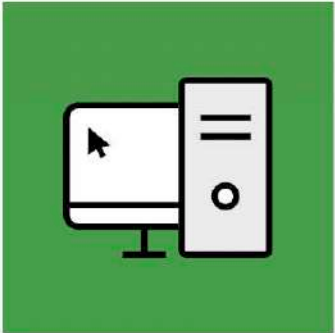
1279 Quarry Lane, Suite A
Pleasanton, CA 94566

Tel 925-249-9123
Fax 925-249-9124
Toll Free TUV-RHEINLAND
Mail info@tuv.com
Web www.tuv.com

Member of
TUV Rheinland Group

HP EliteBook 865 16 inch G11 Notebook PC

ENERGY STAR



COMPUTERS &
DISPLAYS

Product Summary:

Product Type:	Notebook
Registered In:	Spain
Manufacturer:	HP
EPEAT Tier:	Gold
Registration Date:	2024-04-22
Product Status:	Active
EPEAT Climate+:	Achieved 2024-04-22
Exceptions:	Configurations that are not ENERGY STAR qualified do not meet required criterion 4.5.1.1.

Universal Product Code(s): 197498227856, 197498227863, 197498227870, 197498227887, 197498227894

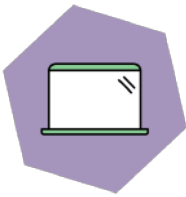
All unique product identifiers existing for this product may not be listed here. If the unique product identifier you are looking for is not listed, please contact EPEAT at EPEAT@GEC.org.

EXPORT PRODUCT SUMMARY



CERTIFICATE

TCO Certified, generation 9 for notebooks



Brand name: HP

Sales name: HP EliteBook 865 16 inch G11 Notebook PC

Certification date: 2024-04-01

Expiry date: 2026-04-01

Toward sustainable IT products

TCO Certified is the world-leading sustainability certification for IT products. It is an easy-to-use tool that helps you get environmental and social sustainability right. Criteria are mandatory, tough, and apply globally. Compliance is always independently verified.

For more information, visit tcocertified.com.

No. N924040451

Emma Hagrot
Certification process
TCO Development

This certificate confirms that a sample of the certified product, as stated herein, has been tested and approved as to its compliance with the criteria document valid at the time of the laboratory test. The certified product may, subject to the use of the unique combination of brand name, type/model name and sales name as stated in this certificate, be marked and sold with the TCO Certified label in accordance with the agreement.

Appendix to certificate No. N924040451



Brand name: HP

Sales name(s):

HP EliteBook 865 16 inch G11 Notebook PC

Separate power supply: Yes, Class 1
Operating mode sound level: 3.6 B



62%

Recycled plastic



2.4 kg

Total weight of product



Energy consumption:

For energy consumption and yearly emissions, visit tcocertified.com/product-finder/



Aspect ratio: Other

Panel size: 16 in

Min. resolution width: 1920 px

Min. resolution height: 1200 px



Battery longevity:

The main battery in this product is tested to withstand at least: **300** full discharges until it reaches 80% of the initial capacity



Durability

Drop test height: 76.2 cm

High temp operational: 60° C

Low temp operational: -29° C

Model names(s)

HSN-I49C-6

Model name type key(s)

1st * : N/A

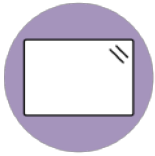
2nd * : N/A

Check carefully on the brand webshop as only some configurations of this product are certified!

Only certified configurations are manufactured at factories compliant with TCO Certified social and environmental criteria

Emma Hagrot
Certification process
TCO Development

Appendix to certificate No. N924040451



Panels:

SAMSUNG ATNA60CL08, SAMSUNG ATNA60CL01, AUO B160UAN04.4, BOE NV160WUM-N41, INNOLUX N160JCA-EEK, LG Display LP160WU3 (SP)(D1), AUO B160UAN01.L, BOE NE160WUM-N63, INNOLUX N160JCG-GT2, IVO X160NV42 R0, AUO B160UAV01.0, AUO B160UAK01.3, BOE NV160WUM-T01, INNOLUX N160JCN-EEK



Batteries:

ATL HSTNN-AB1D, CosMX HSTNN-OB3H, Dynapack TPN-DB1S, Simplo TPN-IB0Y, Simplo HSTNN-IB9Z/ ATL, Simplo HSTNN-IB9Z/ CosMX



Adapters:

hp TPN-CA21, hp TPN-DA20, hp TPN-HA01, hp TPN-LA23, hp TPN-CA31, hp TPN-DA32, hp TPN-LA31, hp TPN-AA08, hp TPN-CA30, hp TPN-DA26, hp TPN-LA22

A handwritten signature in blue ink, reading 'Emma Hagrot'.

Emma Hagrot
Certification process
TCO Development

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	
Company name *	HP	
Contact information *	HP Sustainability and Compliance Center	
e-mail address	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 EliteBook 865 16 inch G11 Notebook PC ENERGY STAR
Model number *	865 G11
Issue date *	4/19/2024
Intended market *	☒ Global ☒ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ 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 *	865 G11	Logo	
Issue date *	4/19/2024		

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)	☒	☐	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	☒	☐	
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.	☒	☐	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	☒	☐	
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).	☒	☐	
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.	☒	☐	☐
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): REACH Article 33 Declarations (hp.com)	☒	☐	☐
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)	☒	☐	☐
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	☒	☐	☐
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	☐	☒	☐
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)	☒	☐	☐
P2.5*	When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference)	☒	☐	☐
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	☒	☐	☐
P3.2*	The product complies with the applicable Eco design requirements for energy-related products, (see legal reference). Required information is; ☒ given in item P15 or added to this document, ☐ available at (add URL):	☒	☐	☐
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.	☒	☐	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	☒	☐	☐
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.	☒	☐	☐
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	☒	☐	☐

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.

Model number *	865 G11	Logo	
Issue date *	4/19/2024		

Product environmental attributes - Market requirements (See General NOTE GN below)			
- Environmental conscious design		Requirement met	
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No n.a.
P7 Design			
Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	☒	☐
P7.2*	Plastic materials in covers/housing have no surface coating.	☒	☐
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	☐	☒
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	☒	☐
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	☒	☐
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	☒	☐
Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	☒	☐
P7.8*	Upgrading can be done using commonly available tools	☒	☐
P7.9	Spare parts are available after end of production for: 5 years		☐
P7.10	Service is available after end of production for: 5 years		☐
Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: <u>aluminium</u> Material type: <u>PC+ABS</u> Material type:		
P7.12	Insulation materials of external electrical cables are PVC free.	☐	☒
P7.13	Insulation materials of internal electrical cables are PVC free.	☒	☐
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.	☒	☐
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all ☐ PCBs > 25 g ☒ are low halogen as defined in IEC 61249-2-21. (See ⁵ NOTE B2)	☒	☐
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: <u>>PC+ABS-TD15FR(40)<</u>	☒	☐
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) ☐ , TBBPA (reactive) ☐ (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: <u>FR(40)</u>	☐	☐
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: <u>>PC+ABS-TD15FR(40)<</u>	☐	☐
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; R53 and Hazard statements: H413 - May cause long-lasting harmful effects to aquatic life The source(s) for these classifications is/are found at (add URL(s)): <u>http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database</u> (See note B5)	☒	☐

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.

Model number *	865 G11	Logo	
Issue date *	4/19/2024		

Product environmental attributes - Market requirements (continued)					Requirement met		
Item					Yes	No	n.a.
Material and substance requirements (continued)							
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 61.7%.						
	or						
	b) The weight of recycled material is g.						
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.						
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: 0 mg						
P7.23*	If product includes an integral display, the total mercury content in the integrated display: 0 mg				☒	☐	☐
P8 Batteries							
P8.1*	Battery chemical composition: Lithium ion, lithium/manganese dioxide						☐
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 *	☐		
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.0242 W	0.0282 W	0.059 W	EPS Energy Test Report			
PTEC * Typical Energy Consumption	N/A	N/A	N/A	EnergyStar@ Program Requirements for Computer	☒		
ETEC * Annual Energy Consumption	18.02 kWh/year	18.53 kWh/year	19.05 kWh/year	EnergyStar@ Program Requirements for Computer	☐		
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI				EnergyStar@ Program Requirements for Computer	☐		
Display resolution * : 1920*1200 megapixels				EnergyStar@ Program Requirements for Computer	☐		
Default time to enter energy save mode: minutes				EnergyStar@ Program Requirements for Computer	☐		
P9.2*	Information about the energy save function is provided with the product.				☒	☐	☐
P9.3	Energy efficiency class (monitors only):						☒

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.

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>.

Model number *	865 G11	Logo	
Issue date *	4/19/2024		

Product environmental attributes - Market requirements (continued)				Requirement met		
Item				Yes	No	n.a.
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	* Fans on	* 2.6		☐	
	Operation	* Operating SSD	* 3.8		☐	
	Other mode	CPU	3.6			
	Measured according to: ☒ ISO 7779 ☒ ECMA-74 ☐ Other (only if not covered by ECMA-74)					
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): 0.358			
	Product packaging material type(s): PAPER/Molded Pulp		weight (kg): 0.162			
	Product packaging material type(s): PLASTIC/Polyethylene low density – LDPE		weight(kg):0.013			
	Product packaging material type(s): PAPER/Paper		weight(kg):0.004			
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: 52 %					☐
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: 8.0	Date: 4/19/2024	Product category: Commercial Notebook		
	Eco-label: EPEAT	Criteria version: IEEE 1680.1	Date: 4/19/2024	Product category: Commercial Notebook		
	Eco-label: TCO	Criteria version: 9.0	Date: 4/19/2024	Product category: Commercial Notebook		
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.					

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

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.

P7 Product Upgradability and Reparability

The following table is provided in accordance with IEEE 1680.1-2018⁶ criterion 4.4.2.5.

feature	Available[1]	Repairable[2]	Replaceable[2]	Upgradeable[3]
processor	Y	Y	Y*	Y
main memory	Y	Y	Y	Y
mass storage (internal)	Y	Y	Y	Y
wireless networking	Y	Y	Y	Y
integrated graphics	Y	Y	Y*	N
discrete graphics	N	N/A	N/A	N/A
display panel	Y	Y	Y	Y
integrated keyboard	Y	Y	Y	Y
battery	Y	Y	Y	Y
power supply	Y	Y	Y	Y
fan assemblies	Y	Y	Y	N
speaker(s) (internal)	Y	Y	Y	N
camera	Y	Y	Y	Y
touchpad	Y	Y	Y	N
I/O connectors and external power connector	Y	Y	Y	N
readers [5]	Y	Y	Y	N

Table notes:

[1] Y* = feature is available, but may not be included in every configuration

[2] Product can be repaired (returned to fully functional state) if feature fails.

[3] Feature can be replaced using only commonly available tools without soldering or de-soldering. Y* = replacement may require replacing an assembly to which the feature is attached.

[4] Base feature may be upgraded by replacing it with a higher performance module or by expanding capacity through use of expansion slots. NOTE: This evaluation does not account for situations in which the initial configuration purchased is already maximized. Contact HP Sales or an HP authorized reseller to determine the availability of upgrade parts and method to obtain them in your geography.

[5] This feature category includes readers such as fingerprint readers, smart card readers, and other read-only devices, but excludes read/write devices.

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)	0.47 W	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)	1.76 W	10 Mins
Network Standby / Sleep / Long Idle Mode (if applicable)	1.76 W	10 Mins

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	Statistical upper limit A-weighted sound pressure level, $L_{pA,m}$ (dB)
	Idle	* Fans on	* 14.4
	Operation	* Operating SSD	* 25.3
	Other mode	CPU	33.1
Measured according to: ☒ ISO 7779 ☒ 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, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), 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 2006/66/EC (Battery and accumulators Directive), as amended.* * 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 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE 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
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
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) Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register. Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	P6.1

Product Carbon Footprint Report

24-Apr-2024

HP EliteBook 865 16 inch G11 Notebook PC ENERGY STAR



Estimated impact

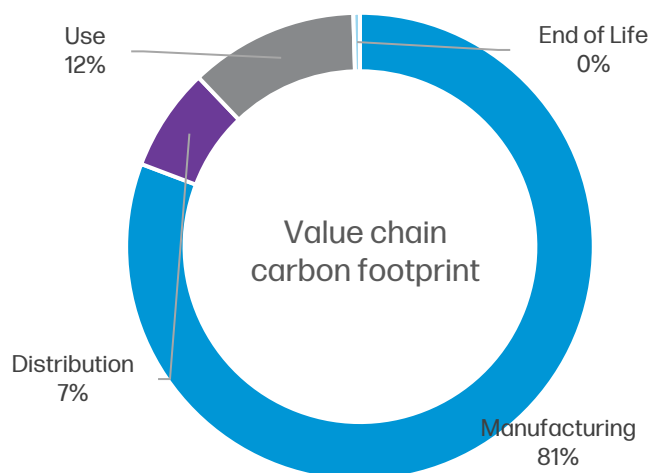
215
kg CO₂ eq.



As part of HP's commitment to continually improve the environmental performance of our products, we utilize product carbon footprinting (PCF) to better understand environmental impacts that occur at different stages of the product life cycle. A product carbon footprint is defined as the total amount of greenhouse gases emitted directly and indirectly by a product over its lifetime. Greenhouse gas emissions are reported as global warming potential for 100-year time horizon (GWP-100) in units of CO₂ equivalence. Our product carbon footprints include full value chain emissions, which incorporate carbon emissions due to raw materials extraction, manufacturing, distribution, use, and product end-of-use.

The information provided here represents the lifecycle carbon footprint of an industry-average notebook computer with the specifications listed in Assumptions table.

GHG Emissions



Manufacturing Breakout

Mainboard and other boards	43%
Display	19%
Solid State Drive (SSD)	17%
Chassis	9%
Batteries	5%
Power Supply Unit & External Cables	4%
Others*	2%
Packaging	1%

HP's environmental impact calculations are done in accordance with ISO 14040/44. All estimates of impact results are uncertain, resulting largely from data limitations and data quality. To mitigate this uncertainty, HP has developed HP-specific tools that use a combination of HP processes and product data, as well as high-quality lifecycle assessment data. HP strives to provide the most accurate environmental impact results but uncertainty will never be completely minimized and results should be considered accordingly.

Assumptions

Lifetime of product (years)	4
Use location	North America
Use energy demand (kWh/year)	11.69
Product weight (kg)	2.41
Screen size (in)	16"
Final manufacturing location	China

Additional product environmental performance

Additional information about HP's carbon footprinting program can be found in HP's yearly Sustainability Report, which is available on the HP Sustainability website.

The site also contains IT Eco Declarations, which provide product-specific environmental information, as well as information on HP's product recycling programs.

* Others section includes assembly energy, other subassemblies and all subassemblies packaging and transport

Learn more at

[HP's Sustainability Website](#)

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