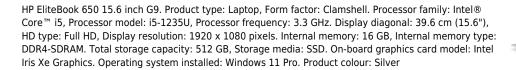# HP

HP EliteBook 650 15.6 inch G9 Intel® Core™ i5 i5-1235U Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Silver

Brand : HP

Product family: EliteBook

Product code: 6F1C9EA

Product name : 650 15.6 inch G9

HP EliteBook 650 15.6 inch G9. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-1235U, Processor frequency: 3.3 GHz. Display diagonal: 39.6 cm (15.6"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics. Operating system installed: Windows 11 Pro. Product colour: Silver

Design

Product type *	Laptop
Product colour *	Silver
Form factor *	Clamshell
Market positioning	Premium
Introduction year	2022
Country of origin	China
Original brand name	HP

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1920 x 1080 pixels
Touchscreen *	✘
HD type	Full HD
Panel type	IPS
Anti-glare screen	✔
Display bezel technology	Micro-Edge
Display brightness	400 cd/m²
Display diagonal (metric)	39.6 cm
RGB colour space	NTSC
Colour gamut	72%

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	12th gen Intel® Core™ i5
Processor model *	i5-1235U
Processor cores	10
Processor threads	12
Processor boost frequency	4.4 GHz
Processor frequency *	3.3 GHz
Processor cache	12 MB
Processor cache type	L3
Configurable TDP-down	12 W

Memory

Internal memory *	16 GB
Internal memory type	DDR4-SDRAM

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.0
Thunderbolt 4 ports quantity	1
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔

Performance

Repairability index	7.7

Keyboard

Keyboard special features	Resistente a derrames
Pointing device	Clickpad
Numeric keypad *	✔
Keyboard backlit	✔
Spill-resistant keyboard	✔
Input device model	Teclado HP Premium

Software

Operating system installed *	Windows 11 Pro

Processor special features

Intel Flex Memory Access	✔
Intel Trusted Execution Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Execute Disable Bit	✔
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Virtualization Technology (VT-x)	✔

Brand-specific features

HP speaker type	HP Dual Speakers

Memory

Memory clock speed	3200 MHz
Memory layout (slots x size)	1 x 16 GB
Memory slots	2x SO-DIMM
Number of free internal memory expansion slots	1
ECC	✘
Non-ECC	✔

Storage

Total storage capacity *	512 GB
Storage media *	SSD
Total SSDs capacity	512 GB
Number of SSDs installed	1
SSD capacity	512 GB
SSD interface	PCI Express
NVMe	✔
SSD form factor	M.2
Optical drive type *	✘

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
On-board GPU manufacturer	Intel
Discrete graphics card *	✘
On-board graphics card family	Intel Iris Xe Graphics
On-board graphics card model *	Intel Iris Xe Graphics

Audio

Built-in speaker(s)	✔
Number of built-in speakers	2
Built-in microphone	✔
Number of microphones	2

Camera

Front camera	✔
Front camera signal format	720p
Front camera HD type	HD
Infrared (IR) camera	✔

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✘
Antenna type	2x2
WLAN controller model	Intel Wi-Fi 6E AX211
WLAN controller manufacturer	Intel
Bluetooth	✔
Bluetooth version	5.3

Brand-specific features

HP Connection Optimizer	✔
HP Support Assistant	✔
HP Smart AC Adapter	✔
HP front camera	HP Privacy HD IR
HP Software provided	HP Hotkey Support; HP MAC Address Manager; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HP QuickDrop; HP Quick Touch
HP segment	Business

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	3
Battery capacity *	51 Wh
Battery weight	180 g

Power

AC adapter power	65 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
USB Power Delivery (USB PD)	✔

Security

Fingerprint reader	✔
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0
Password protection	✔
Password protection type	BIOS, Power on, User

Certificates

Compliance certificates	CCC, GS mark

Sustainability

Sustainability compliance	✔
Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	359.4 mm
Depth	233.9 mm
Height	19.9 mm
Weight *	1.74 kg

Packaging data

Package width	69 mm
Package depth	520 mm
Package height	305 mm

Packaging content

Keyboard included	✔
Stylus pen	✘

Other features

Power management	✔
Number of speakers	2

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