

Dell Pro 16 Plus PB16255 (P5DYC)

Dell Pro 16 Plus PB16255 - Copilot+ PC - AMD Ryzen AI 5 PRO - 340 / up to 4.8 GHz - Win 11 Pro - Radeon 840M - 16 GB RAM - 512 GB SSD SED, NVMe - 16" IPS 1920 x 1200 (Full HD Plus) - Gigabit Ethernet - NFC, Wi-Fi 7 - platinum silver - BTS - with 1 Year Basic Onsite



The Dell Pro 16 Plus PB16255 combines robust performance with an impressive display, tailored for both professional and everyday use. Featuring a striking 16-inch Full HD Plus display with a native resolution of 1920 x 1200, this device delivers crisp visuals, ensuring images are vivid and bright with a brightness level of 300 cd/m². The anti-glare and wide viewing angle make it adaptable for different lighting conditions, providing clarity and comfort for prolonged usage. Powered by an AMD Ryzen AI 5 PRO processor, this notebook offers a max turbo speed of 4.8 GHz, making it suitable for multitasking and demanding applications. With 16 GB of LPDDR5X RAM and a 512 GB SSD for storage, users can expect swift performance and quick data access, enhancing productivity. Additionally, integrated security features, including a fingerprint reader and smart card reader, provide peace of mind for sensitive data, while features like ExpressCharge ensure efficient power management.

Key Selling Points

- 16-inch Full HD Plus anti-glare display for enhanced viewing experience
- Powerful AMD Ryzen AI 5 PRO processor with up to 4.8 GHz turbo speed
- Ample 512 GB SSD storage for fast data access
- Integrated security features including fingerprint and smart card reader
- Supports USB Power Delivery and features dual USB-C ports

Product Features

- Vivid display**
The 16-inch Full HD Plus display offers a resolution of 1920 x 1200 with a brightness of 300 cd/m², ensuring vibrant visuals and comfortable viewing in various lighting conditions.
- Robust processing power**
Equipped with an AMD Ryzen AI 5 PRO processor, the device supports 12 threads and delivers performance with a max turbo speed of 4.8 GHz, ideal for multitasking.
- Extensive storage**
The 512 GB SSD provides quick access to files and applications, fostering an efficient workflow without the burden of slow load times.
- Enhanced security features**
Integrated with a fingerprint reader and smart card reader, the device ensures secure access to sensitive data, making it suitable for professional environments.
- Powerful networking capabilities**
With support for multiple wireless protocols including Wi-Fi 6 and Bluetooth, connectivity is reliable and fast, meeting the needs of modern users.

Main specifications

Product Description	Dell Pro 16 Plus PB16255 - Copilot+ PC - 16" - AMD Ryzen AI 5 PRO - 340 - 16 GB RAM - 512 GB SSD
Product Type	Notebook - Copilot+ PC
Operating System	Win 11 Pro
Processor	AMD Ryzen AI 5 PRO 340 up to 4.8 GHz / 16 MB Cache
Neural Processor Unit (NPU)	AMD Ryzen AI - up to 50 TOPS
Memory	16 GB LPDDR5X SDRAM (provided memory is soldered)
Storage	512 GB SSD - SED, NVMe
Display	16" 1920 x 1200 / Full HD Plus @ 60 Hz - 142 ppi
Graphics	AMD Radeon 840M
Keyboard Backlight	Yes
Numeric Keypad	Yes
Integrated Webcam	Yes
Networking	Bluetooth, NFC, 802.11a/b/g/n/ac/ax/be, Gigabit Ethernet
Battery	3-cell
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip, smart card reader, contactless smart card reader
Colour	Platinum silver
Dimensions (WxDxH)	35.8 cm x 25.14 cm x 2.135 cm

Weight	1.86 kg
Pricing Type	Build To Stock (BTS)
Manufacturer Selling Program	Dell Smart Selection
Environmental Standards	EPEAT Gold, EPEAT Climate+
Carbon Footprint	124 kg carbon emissions
Specific Absorption Rate (SAR)	1.93 W/kg (body) † 1.93 W/kg (limb)
Bundled Services	1 Year Basic Onsite

Extended specification

Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	35 °C
Humidity Range Operating	10 - 90% (non-condensing)
Shock Tolerance (operating)	110 g @ 2 ms half-sine pulse
Shock Tolerance (non-operating)	160 g @ 2 ms half-sine pulse
Vibration Tolerance (operating)	0.66 g @ RMS (random)
Vibration Tolerance (non-operating)	1.3 g @ RMS (random)

Input

Type	Keyboard, touchpad
Keyboard Backlight	Yes
Numeric Keypad	Yes
Features	Copilot key

Miscellaneous

Colour	Platinum silver
Case Material	Aluminum
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip, smart card reader, contactless smart card reader
Features	ExpressCharge, ExpressChargeBoost, Dell ControlVault 3 +
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Wedge-shaped security slot
Included Accessories	POD Label
Compliant Standards	FIPS 140-2, TCG Certified
Specific Absorption Rate (SAR)	1.93 W/kg (body) † 1.93 W/kg (limb)
Pricing Type	Build To Stock (BTS)
Manufacturer Selling Program	Dell Smart Selection

Display

Type	16" - IPS
Resolution	1920 x 1200 (Full HD Plus)
V-Sync Rate at Max Res.	60 Hz
Widescreen	Yes
Pixel Density (ppi)	142
Image Brightness	300 cd/m²
Horizontal Viewing Angle	+80 / -80
Vertical Viewing Angle	+80 / -80
Colour Gamut	45% NTSC
Features	Anti-glare, Wide Viewing Angle, 35 ms response rate, 0.18 mm pixel pitch

Communications

Wireless	Bluetooth, NFC, 802.11a/b/g/n/ac/ax/be
Wireless Controller	MediaTek Wi-Fi 7 MT7925
Network Interface	Gigabit Ethernet
Ethernet Controller	Realtek RTL8111EPP
Features	Dual stream (2x2)

Sustainability Information

EPEAT Compliant	EPEAT Gold
EPEAT Climate+	Yes
Carbon Footprint	124 kg carbon emissions
Manufacturing (kg CO2e)	94.12
Logistics (kg CO2e)	5.7
Use (kg CO2e)	21.45
EOL (kg CO2e)	2.73
Total Carbon w/o Use Phase (kg CO2e)	87
PAIA Version	GaBi version 1, 2024

Audio & Video

Graphics Processor	AMD Radeon 840M
Camera	Yes - 1920 x 1080 (standard), 640 x 360 (infrared)
Resolution	2.07 Megapixel (standard), 0.23 Megapixel (infrared)
Image Sensor Type	CMOS
Video Resolutions	1920 x 1080
Frame Rate	30 frames per second
Camera Features	Face recognition, privacy shutter, IR camera, RGB camera, Temporal Noise Reduction, 86.6 degrees (IR camera), 80.2 degrees
Sound	Stereo speakers, 2 array microphones
Codec	Realtek ALC3329

Battery

Technology	3-cell
Weight	220 g
Capacity	55 Wh

Dimensions & Weight

Dimensions (WxDxH)	35.8 cm x 25.14 cm x 2.135 cm
Weight	1.86 kg

General

Product Type	Notebook
AI Level	Copilot+ PC
Operating System	Windows 11 Pro

Processor / Chipset

CPU	AMD Ryzen AI 5 PRO 340
Max Turbo Speed	4.8 GHz
Number of Cores	6-core
Cache	L3 - 16 MB

Features	12 Threads
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Connections & Expansion

Interfaces Details	HDMI ¦ 2 x USB4 (supports DisplayPort 2.1) (Power Delivery) ¦ USB 3.2 Gen 1 (PowerShare) ¦ USB 3.2 Gen 1 ¦ Headphone/microphone combo jack ¦ LAN (RJ-45)
Memory Card Reader	Yes (microSD)

Memory

RAM	16 GB (provided memory is soldered)
Technology	LPDDR5X SDRAM
Speed	7500 MT/s
Rated Speed	7500 MT/s

Manufacturer Warranty

Bundled Services	1 Year Basic Onsite
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Storage

Main Storage	512 GB SSD M.2 PCIe 4.0 - Self-Encrypting Drive, NVMe Express (NVMe)
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Neural Processor Unit (NPU)

Neural Processor Unit (NPU)	AMD Ryzen AI
NPU Performance Up To (TOPS)	50 TOPS
Total Processor Performance Up To (TOPS)	59 TOPS

Software

Software Included	Dell Additional Softwares, Activate your Microsoft 365 for a 30 day trial
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