ComX Computers
Product Specification Sheet

ASUS PM5406CGA-R716512G0W

Asus ExpertBook P5 PM5406CGA Notebook Ryzen AI 7 445 4.6GHz 16GB 512GB 14" WUXGA AMD Radeon BT Win 11 Home

Product Overview

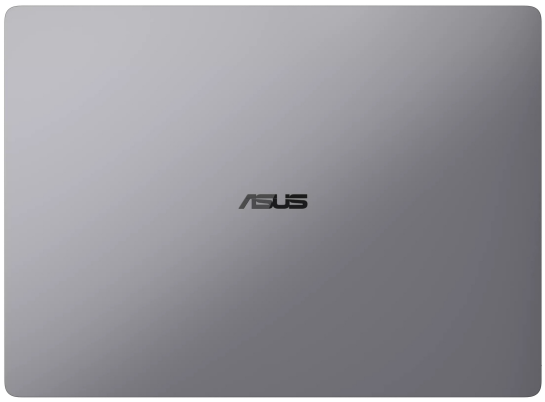
Asus ExpertBook P5 PM5406CGA Series ASUS PM5406CGA-R716512G0W Grey Notebook, AMD Ryzen AI 7 445 Six (6) Core Turbo Boost up to 4.6Ghz 14MB L3 Cache Processor, 16GB DDR5-5600 SO-Dimm Memory (1x16GB), Supports 64GB Max Mem, 2 Memory slots, 512GB SSD Solid State Hard Drive PCIe, M.2 2230 slot + M.2 2280 Slot, NO optical drive (No CD), 14" WUXGA (1920 x 1200 resolution) Glossy Type 300nits OLED Backlit Display, AMD Radeon 840M Graphics, AMD XDNA NPU up to 50 TOPS, 802.11ax Wi-Fi 6, 10/100/1000 Gigabit Ethernet LAN, Bluetooth, Webcam, 4 Cell Battery, Fingerprint Reader, Backlit Keyboard, 2x USB 3.2 Gen 1 Type-A, 2x USB 3.2 Gen 2 Type-C support display / power delivery, HDMI output, 1.4 kg, Microsoft Windows 11 Home 64 bit, 1 Year Carry in warranty











Specifications

Summary Overview:

Experience superior performance and portability with the ASUS ExpertBook P5 G2, now available for purchase in South Africa. This premium business laptop features a stunning 14-inch OLED display, powerful AMD Ryzen AI 7 processor, and military-grade durability designed to handle your toughest workflows. Whether you are managing complex spreadsheets or creating content on the go, this machine delivers seamless multitasking with 16GB DDR5 memory and lightning-fast storage.

Built for professionals who demand reliability, it includes advanced security features like a fingerprint reader and TPM 2.0 to keep your data safe. The sleek Misty Grey design ensures you look professional wherever you work, while the long-lasting battery keeps you productive throughout the day. Upgrade your workflow with this exceptional machine by buying now.

Laptop performance tier: High-end Business

Uses: Professional work, multitasking, content creation, business meetings, secure data handling, portable computing, student studies

Overview:

The ASUS ExpertBook P5 G2, model PM5406CGA-R716512G0W, is a professional-grade laptop engineered for productivity and AI efficiency. This Misty Grey notebook combines the power of an AMD Ryzen AI 7 processor with up to 4.6GHz turbo speeds and a dedicated NPU delivering up to 50 TOPS for seamless AI tasks. It features a stunning 14-inch WUXGA OLED display that offers vivid colors and deep contrast, making it ideal for creative work and media consumption.

Designed with durability in mind, the aluminum chassis meets military-grade MIL-STD-810H standards to withstand demanding environments. Users benefit from robust security measures including a fingerprint reader, IR webcam for Windows Hello, and ASUS ExpertGuardian protection. The laptop runs on Microsoft Windows 11 Home and includes essential connectivity options like Wi-Fi 6, Gigabit Ethernet, and a comprehensive array of USB-C and HDMI ports.

Description

This premium business notebook delivers exceptional performance with its AMD Ryzen AI processor and upgradable DDR5 memory. The sleek, lightweight design ensures portability for professionals on the move, while the OLED screen provides an immersive visual experience. Key benefits include advanced thermal management for sustained performance, comprehensive security features like TPM 2.0 and FIDO2 authentication, and a versatile I/O layout that supports external displays and fast data transfer.

Features:

Performance and AI Capabilities

At the heart of this machine lies the AMD Ryzen AI 7 445 processor, offering six cores and twelve threads to handle demanding multitasking with ease. The integrated AMD XDNA NPU accelerates artificial intelligence workloads, enabling

faster processing for local AI applications and enhanced user experiences powered by Windows 11 features.

- AMD Ryzen AI 7 445 Processor (up to 4.6 GHz)
- Up to 50 TOPS Neural Processing Power
- 16GB DDR5-5600 Memory (expandable to 64GB)
- AMD Radeon 840M Graphics
- Multitasking optimized for modern business workflows

Display and Visual Experience

The 14-inch OLED panel delivers a WUXGA resolution of 1920 x 1200 pixels with a 16:10 aspect ratio, providing more vertical screen real estate for documents and web browsing. With 300 nits brightness and coverage of 100% DC-P3 color gamut, images appear vibrant and accurate. The glossy finish enhances contrast ratios up to 100,000:1, ensuring deep blacks and sharp visuals.

- 14-inch WUXGA (1920 x 1200) OLED Display
- Glossy finish with anti-glare coating options
- 100% DC-P3 color gamut coverage
- 170-degree viewing angles for collaborative work
- Non-touch panel design for durability

Durability and Design

Built to endure the rigors of daily business travel, this laptop features a robust aluminum chassis that has passed rigorous in-house tests alongside US MIL-STD 810H military-grade standards. The sleek Misty Grey finish not only looks professional but also resists wear and tear. Weighing approximately 1.36 kg with the battery included, it strikes a perfect balance between sturdiness and portability.

- Military-grade MIL-STD-810H certification
- All-aluminum chassis construction
- Slim profile ranging from 1.04cm to 1.80cm thick
- Fingerprint reader integrated into the power key
- Physical webcam privacy shutter for security

Connectivity and Ports

The ASUS ExpertBook P5 G2 ensures you stay connected with a comprehensive selection of ports that eliminate the need for dongles. From high-speed data transfer to external display connections, every port serves a specific purpose designed to enhance your workflow in any environment.

- 1x USB 3.2 Gen 2 Type-C (Display/Power Delivery)
- 1x USB 4.0 Type-C (Full function with Display/Power)
- 2x USB 3.2 Gen 1 Type-A ports
- 1x HDMI 2.1 TMDS output
- 1x RJ45 Gigabit Ethernet LAN port
- 1x 3.5mm Combo Audio Jack

Security and Privacy Features

Data protection is paramount with the ASUS ExpertGuardian suite, which includes a NIST SP 800-155 compliant BIOS and Microsoft Secured-core PC technologies. The device supports FIDO2 authentication for secure logins and includes a Kensington Nano Security Slot to physically anchor the laptop in high-risk areas.

- Fingerprint sensor with Windows Hello support
- IR webcam for facial recognition login
- Trusted Platform Module (TPM) 2.0 chip
- Kensington Nano Security Slot included
- ASUS ExpertGuardian security framework

Part Number Information

The specific model identifier for this configuration is ASUS PM5406CGA-R716512G0W. This part number corresponds to the unit equipped with the AMD Ryzen AI 7 processor, 16GB of DDR5 memory, and a 512GB PCIe SSD. It also includes the Misty Grey finish and the OLED display configuration described above.

Battery and Power

Keep your work going longer with a reliable power solution that supports extended usage away from an outlet. The laptop is equipped with a 4-cell Li-ion battery designed to provide sufficient runtime for a typical business day, while fast charging capabilities help minimize downtime during short breaks.

- 70WHrs 4S1P 4-cell Li-ion battery
- 90W Type-C AC Adapter included
- Supports power delivery via USB-C ports
- Battery health management features in MyASUS software

What's in the box

Purchase your ASUS ExpertBook P5 G2 and receive all essential components required to start working immediately. The package includes the laptop unit itself along with the necessary power delivery infrastructure.

- 1x ASUS ExpertBook P5 Laptop (Misty Grey)
- 1x 90W Type-C AC Adapter
- 1x Power Cord

Specifications:

Model	PM5406CGA / 9ONXOAA1-MOODNO
Operating System	Windows 11 Home - ASUS recommends Windows 11 Pro for business
Office	1-month trial for new Microsoft 365 customers. Credit card required.
LCD cover-material	Aluminum
LCD cover-color	Misty Grey
Top case-material	Aluminum
Top case-color	Misty Grey
Bottom case-material	Aluminum
Bottom case-color	Misty Grey
Military grade	US MIL STD 810H military grade standard (24 procedures)
Panel Size	14.0-inch
OLED	OLED
Brightness	300nits
Resolution	WUXGA (1920 x 1200) 16:10
Glare	Glossy display
Color gamut	DCI-P3: 100%
View angle(H/V)	170/170
Response time(Typ/Max) (ms)	1/1
Refresh rate	60Hz
Contrast (Typ)	100000:1
Touch Panel	Non-touch screen
Screen-to-body ratio	86 %

IPS-level	Wide view
Processor	AMD Ryzen"'A1 7 445 Processor 2.0GHz (8MB Cache, up to 4.6 GHz, 6 cores, 12 Threads) , AMD XDNA"' NPU up to 50 TOPS
Neural processor	AMD Ryzen"' Al over 40 TOPS
Chipset	N/A
Discrete/Share	Share
Integrated GPU	AMD Radeon"' 840M
VRAM	N/A
How to upgrade memory	Upgradable , Need to remove bottom/top case
Expansion Slot(includes used)	2x DDR5 SO-DIMM slots
	1x M.2 2280 PCIe 4.0 x4
	1x M.2 2230 PCIe 4.0 x4
DIMM Memory	16GB DDR5 SO-DIMM
Total System Memory	DDR5 16GB
Storage	512GB M.2 2280 NVMe PCIe 4.0 SSD
Front-facing. Camera	5.0M camera with IR function to support Windows Hello
	With privacy shutter
Wireless	Wi-Fi 6(802.11ax) (Dual band) 2*2 + Bluetooth 5.4 Wireless Card
NumberPad	N/A
FingerPrint	FingerPrint
Keyboard type	Backlit Chiclet Keyboard
Keyboard language	English
I/O ports	1x USB 3.2 Gen 2 Type-C support display / power delivery
	2x USB 3.2 Gen 1 Type-A
	1x USB 4.0 Type-C support displayl power deliver
	1x HDMI"' 2.1 TMDS
	1x 3.5mm Combo Audio Jack
	1x RJ45 Gigabit Ethernet
Audio.	Audio by Dirac
	Smart
	Amp Technology
	Built in speaker
	Built-in array microphone
Battery	70WHrs, 4S1P, 4-cell Li-ion
AC Adapte	TYPE-C, 90W AC Adapter, Output: 20V DC, 4.5A, 90W, Input: 100-240V AC 50/60Hz universal (Adapter+power cord)

Required charging power	Min: 80W
	Max: 90W
	*The indicated wattage is for demonstrating the system's support capability as required by EU regulations. For optimal system performance, please use the standard-wattage adapter or higher.
Dimension (WxHxD)	31.27 x 22.71 x 1.04 - 1.80 cm (12.31" x 8.94" x 0.41" - 0.71")
Starting Weight (with Battery)	1.36 kg (3.00lbs)
Starting Weight (w/O Battery)	1.10kg(2.43lbs)
Security	Kensington Nano Security Slot(6x 2.5mm)
	Fingerprint sensor integrated with Power Key
	IR webcam with Windows Hello support
	BIOS Integrity Measurement Support
	Support Absolute Persistence 2.0 (Computrace)
	BIOS Self Recovery
	Trusted Platform Module (TPM) 2.0
	Microsoft Security Level 3
	Microsoft Secured-core PC
	ASUS ExpertGurdian with NIST SP 800 155 compliance
Antivirus	McAfee 1 year
MyASUS feature	System diagnosis
	Battery health charging
	Fan Profile
	Splendid
	Function key lock
	AppDeals
	Link to MyASUS
Built-in Apps	MyASUS

FAQ

What operating system is included with the ASUS ExpertBook P5, and can I upgrade to Windows 11 Pro?

This notebook comes pre-installed with Microsoft Windows 11 Home 64-bit. While it is a capable OS for personal use, ASUS recommends upgrading to Windows 11 Pro for business applications requiring advanced management and security features.

Can I upgrade the memory or storage on this laptop?

Yes, the ExpertBook P5 is designed with expandability in mind. It features two DDR5 SO-DIMM slots that support up to 64GB of total memory (currently equipped with one 16GB module). For storage, it includes a primary M.2 2280 PCIe 4.0 SSD slot and an additional M.2 2230 slot for further expansion or secondary drives.

Does this model have a touchscreen display?

No, the specific configuration of the ASUS ExpertBook P5 PM5406CGA includes a non-touch 14-inch WUXGA (1920 x 1200) OLED backlit display. It offers high contrast and vivid colors but does not support touch input.

What connectivity ports are available for external devices?

The laptop is equipped with a comprehensive set of I/O options, including two USB 3.2 Gen 1 Type-A ports, one full-function USB 3.2 Gen 2 Type-C port that supports display and power delivery, one USB 4.0 Type-C port, an HDMI 2.1 output, and an RJ45 Gigabit Ethernet LAN port.

How does the laptop ensure security for business users?

The device features ASUS ExpertGuardian with a NIST SP 800-155 compliant BIOS and Windows 11 Secured-core technologies. It includes a fingerprint reader integrated into the power key, an IR webcam supporting Windows Hello, a physical webcam shield for privacy, and a Kensington Nano security slot to prevent theft.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/Buy-Notebooks-Laptops-ASUS-PM5406CGA-R716512G0W-Asus-ExpertBook-P5-PM5406CGA-Notebook-lp-342088.php

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