ComX Computers
Product Specification Sheet

B3405CCA-U716512GLX

Asus ExpertBook B3 B3405CCA Core Ultra Notebook Ultra 7 255H 5.1GHz 16GB 512GB 14" WUXGA Arc 140T BT 3G Win 11 Pro

Product Overview

Asus ExpertBook B3 B3405CCA Series Core Ultra B3405CCA-U716512GLX Grey Notebook, Intel Core Ultra 7 255H Series 2 Sixteen (16) Core Arrow Lake Turbo Boost up to 5.1Ghz 24MB L3 Cache Processor (6 Perfomance Cores & 8 Efficient Cores & 2 Low Power Efficient Cores), 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) Non Gloss Type 300nits LED Backlit Display, Intel Arc Graphics 140T, Intel AI Boost 13 TOPS, 802.11ax Wi-Fi 6, 10/100/1000 Gigabit Ethernet LAN, Bluetooth, Built in 4G (LTE), Webcam, 3 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, Micro SD Card Reader, 1.5 kg, Microsoft Windows 11 Professional 64 bit, 1 Year On-site warranty











Specifications

Summary Overview:

Upgrade your productivity with the ASUS ExpertBook B3 B3405CCA, a powerful 14-inch business laptop designed specifically for professionals in South Africa. Featuring the latest Intel Core Ultra 7 processor and integrated AI capabilities, this device delivers exceptional performance for demanding workflows while remaining lightweight at just 1.5 kg. With built-in 4G LTE connectivity, you can stay connected anywhere without relying on Wi-Fi, making it ideal for hybrid work environments.

This laptop combines robust security features like a fingerprint reader and military-grade durability with a crisp WUXGA display that reduces eye strain during long working hours. Whether you are managing spreadsheets, attending video conferences, or traveling between meetings, the ExpertBook B3 ensures reliable performance. Secure your high-performance business companion today by buying now from our store.

Laptop performance tier: High-End Business

Uses: Office productivity, remote work, data processing, video conferencing, light creative tasks

Overview:

The ASUS ExpertBook B3 B3405CCA is a purpose-built business laptop designed for modern professionals who demand reliability, performance, and mobility. Featuring the latest Intel Core Ultra 7 255H processor with advanced AI capabilities, this machine handles demanding multitasking, data processing, and creative tasks with ease. The inclusion of built-in 4G LTE connectivity ensures you stay productive anywhere, whether in the office or on the move. With a durable design meeting military-grade standards and a sleek Gentle Grey finish, it is an ideal companion for hybrid work environments.

Description

This high-performance business laptop combines the power of the Intel Core Ultra 7 processor with integrated AI features to streamline workflows and enhance collaboration. The device includes a vibrant 14-inch WUXGA display, fast DDR5 memory, and ample storage for seamless multitasking. Key benefits include built-in 4G LTE connectivity for reliable internet access without Wi-Fi, robust security measures like fingerprint scanning and TPM 2.0, and a lightweight chassis weighing just over 1.5 kg for easy portability.

Features:

Key Features

- Intel Core Ultra 7 255H Processor with up to 5.1 GHz Turbo Boost and integrated AI Boost NPU
- 16GB DDR5-5600 Memory (expandable up to 64GB)
- 512GB PCIe SSD with dual M.2 slots for storage expansion
- Built-in 4G LTE connectivity and Wi-Fi 6 support

- 14-inch WUXGA (1920 x 1200) anti-glare display with 300 nits brightness
- Military-grade durability compliant with US MIL STD 810H standards
- Comprehensive security suite including fingerprint reader and Windows Hello support

Performance and Processing Power

At the heart of this system lies the Intel Core Ultra 7 255H processor, a sophisticated chip designed to balance high performance with energy efficiency. It features sixteen cores comprising six performance cores, eight efficient cores, and two low-power efficient cores, delivering up to 5.1 GHz in turbo mode. This architecture ensures smooth handling of complex business applications, heavy multitasking, and data-intensive workflows without lag.

The processor is paired with a dedicated Neural Processing Unit (NPU) offering 13 TOPS of AI performance. This enables intelligent features like noise cancellation during calls and optimized system resource management. For graphics, the integrated Intel Arc Graphics handle everyday creative tasks, video conferencing, and media consumption effectively without the need for a separate graphics card.

Display and Visual Experience

The 14-inch WUXGA screen provides a crisp viewing experience with a resolution of 1920 x 1200 pixels. The 16:10 aspect ratio offers more vertical space, which is ideal for reading documents, coding, or managing spreadsheets. With an anti-glare finish and 300 nits brightness, the display remains clear even in bright office environments or near windows.

The slim bezel design maximizes screen real estate while keeping the laptop compact. The panel supports wide viewing angles of 170 degrees horizontally and vertically, ensuring consistent color accuracy when viewed from different positions. It is a non-touch display optimized for productivity rather than touch interaction.

Mobility and Build Quality

Weighing approximately 1.5 kg, the ExpertBook B3 is engineered for professionals who travel frequently. The chassis combines an aluminum LCD cover with plastic top and bottom cases in a Gentle Grey finish. It meets US MIL STD 810H military grade standards after undergoing 24 rigorous testing procedures to ensure resistance against dust, shocks, temperature extremes, and vibration.

The device features a durable 180-degree hinge that allows the laptop to lay flat for collaborative presentations or easy viewing in tight spaces. The compact dimensions of roughly 315mm x 227mm make it easy to fit into most bags alongside other work essentials.

Connectivity and Ports

This notebook is equipped with a robust array of ports to connect various peripherals without the need for dongles. It supports high-speed data transfer via USB Type-C ports that also handle display output and power delivery.

- 2x USB 3.2 Gen 1 Type-A ports
- 2x USB 3.2 Gen 2 Type-C ports with DisplayPort and Power Delivery support
- HDMI 2.1TMDS port for external displays
- Gigabit Ethernet LAN (RJ45) for stable wired connections
- Micro SD card reader for quick photo transfers
- SIM card slot for built-in 4G LTE connectivity
- Smart card reader support

Wireless capabilities include Wi-Fi 6 (802.11ax) with dual-band support and Bluetooth 5.4, ensuring fast and reliable connections to networks and accessories.

Security and Privacy

Protecting sensitive business data is a top priority for this machine. It includes a fingerprint reader integrated into the power key for quick and secure login via Windows Hello. Additional security layers include a Kensington Nano Security Slot, BIOS user password protection, and Intel Boot Guard.

The system supports Microsoft Secured-core PC standards and Trusted Platform Module (TPM) 2.0 for hardware-based security. Advanced features like ASUS ExpertGuardian with NIST compliance and Intel BIOS Guard further safeguard the device against firmware attacks and unauthorized access.

Storage and Memory Configuration

The laptop comes equipped with 16GB of DDR5-5600 SO-DIMM memory, which is upgradable to a maximum of 64GB using its two available slots. This ensures fast application loading and smooth multitasking capabilities.

Storage is handled by a 512GB M.2 2280 NVMe PCIe 4.0 SSD. The system includes an additional M.2 2230 slot, offering flexibility for expansion. Please note that when the LTE/5G specification is selected, the secondary 2230 SSD cannot be installed due to design constraints.

Battery and Power

A built-in 3-cell Li-ion battery with a capacity of 50 WHrs provides reliable power for daily tasks. The device supports fast charging via the included 65W Type-C AC adapter, which accepts universal input voltage from 100V to 240V.

What's in the box

- ASUS ExpertBook B3 Laptop
- 65W Type-C AC Adapter
- Power cord

The ASUS ExpertBook B3 B3405CCA (Part Number: B3405CCA-U716512GLX) represents a powerful tool for professionals seeking a balance of performance, security, and portability. Its comprehensive feature set makes it suitable for demanding business environments.

Specifications:

Model	B3405CCA / 90NX08L1-MO4HZO
Operating System	Windows 11 Pro
Office	1-month trial for new Microsoft 365 customers. Credit card required.
LCD cover-material	Aluminum
LCD cover-color	Gentle Grey
Top case-material	Plastic
Top case-color	Gentle Grey
Bottom case-material	Plastic
Bottom case-color	Gentle Grey
Military grade	US MIL STD 810H military grade standard (24 procedures)
Panel Size	14.0-inch
Backlit	LED Backlit
Brightness	300nits
Resolution	WUXGA (1920 x 1200) 16:10
Glare	Anti-glare display
Color gamut	NTSC: 45%
View angle(H/V)	170/170
Response time(Typ/Max) (ms)	20/25
Refresh rate	60Hz
Contrast (Typ)	800:1
Touch Panel	Non-touch screen
Screen-to-body ratio	84 %
IPS-level	Wide view

Processor	Intel Core Ultra 7 Processor 255H 2.0 GHz (24MB Cache, up to 5.1 GHz, 16 cores, 16 Threads) , Intel AI Boost NPU up to 13 TOPS
Neural processor	Intel AI Boost NPU
Chipset	N/A
Discrete/Share	Share
Integrated GPU	Intel Graphics
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 2230 PCIe 4.0 x4
	1x M.2 2280 PCIe 4.0 x4
	While selecting the LTE/5G specification, the 2230 SSD can't be installed additionally due to design limitation.
DIMM Memory	16GB DDR5 SO-DIMM
Total System Memory	DDR5 16GB
Storage	512GB M.2 2280 NVMe PCIe4.0 SSD
Front-facing. camera	1080p FHD 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
WWAN	4G LTE support (in selected territories)
NumberPad	N/A
FingerPrint	FingerPrint
Keyboard type	Backlit Chiclet Keyboard
Keyboard language	English
I/O ports	2x USB 3.2 Gen 1 Type-A
	2x USB 3.2 Gen 2 Type-C support display / power delivery
	1xHDMI2.1TMDS
	1x 3.5mm Combo Audio Jack
	1x RJ45 Gigabit Ethernet
	Micro SD card reader
	SIM card slot
	Smart card reader
Audio.	Audio by Dirac
	Smart Amp Technology
	Built in speaker
	Built-in array microphone
Battery	50WHrs, 3S1P, 3-cell Li-ion

AC Adapter	TYPE-C, 65W AC Adapter, Output: 20V DC, 3.25A, 65W, lnput: 100-240V AC 50/60Hz universal. (Adapter+power cord)
Required charging power	Min: 55W
	Max: 65W
	*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)	31.51 x 22.68 x 1.89 - 1.90 cm (12.41" x 8.93" x 0.74" - 0.75")
Starting Weight (with Battery)	1.49 kg (3.28lbs)
Starting Weight (w/O Battery)	1.30 kg (2.87lbs)
Security	Fingerprint sensor integrated with Power Key
	Kensington Nano Security Slot(6x 2.5mm)
	BlOS Booting User Password Protection
	BlOS lntegrity Measurement Support
	BlOS Self Recovery
	BlOS setup user password
	CSME BlOS Redundancy Assistance
	Enhanced Password Strength
	HDD User Password Protection and Security
	lntel CSME Firmware Resihence
	lntel BlOS Guard
	lntel Boot Guard
	Microsoft Secured-core PC
	Microsoft Security Level 2
	Support Absolute Persistence 2.0 (Computrace)
	Trusted Platform Module (TPM) 2.0
	ASUS ExpertGurdian with NIST SP 800 155 compliance
Antivirus	McAfee 30 days free trial
MyASUS feature	System diagnosis
	Battery health charging
	Fan Profile
	Splendid
	Tru2Life
	Function key lock
	WiFi SmartConnect
	AppDeals
	Link to MyASUS
MyExpert Features	ExpertMeet(Al1)

Built-in Apps	AI ExpertMeet (AI features need devices with 12GB RAM or more)
	MyASUS
Reparability Index (for Belgium)	9.5
Reparability Index (for France)	9.9
Ecolabels & Comphances.	EPEAT Gold with Climate+
	Energy star 8.0
	FSC Recycled
	REACH
	RoHS
	TCO Certified

FAQ

Does this laptop support mobile data connectivity without Wi-Fi?

The ASUS ExpertBook B3 includes built-in 4G LTE (WWAN) capabilities, allowing you to stay connected on the go in selected territories even when wireless networks are unavailable.

Can I upgrade the RAM or add more storage later?

Yes, this model features two DDR5 SO-DIMM slots supporting up to 64GB of memory and includes both an M.2 2230 and an M.2 2280 slot for SSD expansion.

Is the screen suitable for working in bright environments?

The 14-inch WUXGA display features an anti-glare panel with 300 nits brightness, designed to reduce reflections during office work or while traveling.

What security features are included for protecting business data?

This notebook comes equipped with a fingerprint reader integrated into the power key, a physical privacy shutter for the webcam, and supports Windows Hello for secure login.

Are there any limitations when using the built-in 4G LTE module?

Please note that if you select this model with the LTE specification, the M.2 2230 SSD slot cannot be used due to a design limitation, meaning only one internal drive can be installed.

Product Information Online

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

Product page: https://www.comx.co.za/Buy-Notebooks-Laptops-B3405CCA-U716512GLX-Asus-ExpertBook-lp-340744.php

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