ComX Computers

Product Specification Sheet

NBAS90NX08L1-M04HY0

Asus ExpertBook B3 B3405CCA Core Ultra Notebook Ultra 5 225H 5.1GHz 16GB 512GB 14" WUXGA Arc 130T BT 3G Win 11 Pro

Product Overview

Asus ExpertBook B3 B3405CCA Series Core Ultra NBAS90NX08L1-M04HY0 B3405CCA-U516512GLX Grey Notebook, Intel Core Ultra 5 225H Series 2 Fourteen (14) Core Arrow Lake Turbo Boost up to 4.9Ghz 18MB L3 Cache Processor (4 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 130T, 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 workflow with the powerful and portable Asus ExpertBook B3405CCA, now available for South African buyers. This AI-powered business laptop features the latest Intel Core Ultra 5 processor and an impressive 14-inch display, delivering seamless performance for demanding tasks. Designed for professionals on the move, it includes military-grade durability, long battery life, and advanced security features like a fingerprint reader to keep your data safe.

Whether you are managing complex spreadsheets, attending video conferences with AI noise cancellation, or working remotely via built-in 4G LTE, this laptop ensures reliability and efficiency. Experience superior connectivity with Wi-Fi 6E and extensive ports for all your peripherals. Secure your high-performance device today by buying now to elevate your business potential.

Laptop performance tier: High-End Business AI PC

Uses: Business productivity, remote work, video conferencing, data analysis, multitasking, travel computing

Overview:

The Asus ExpertBook B3 (Part Number NBAS90NX08L1-M04HY0) is a lightweight, business-class AI laptop designed for professionals who demand reliability and performance. Powered by the Intel Core Ultra 5 Processor 225H with integrated Intel Arc Graphics and an NPU for AI tasks, this machine delivers efficient multitasking capabilities. It features a vibrant 14-inch WUXGA display, military-grade durability per MIL-STD-810H standards, and comprehensive security tools including a fingerprint reader and webcam shield. With built-in 4G LTE connectivity, up to 64GB of expandable DDR5 memory, and Windows 11 Pro pre-installed, it is the ideal companion for modern remote work environments.

The Asus ExpertBook B3 represents a significant leap in productivity AI technology, engineered specifically for the demands of today's mobile workforce. At its heart lies the Intel Core Ultra 5 225H processor, featuring a hybrid architecture with performance cores and efficient cores that manage workload intensity automatically to extend battery life while maintaining speed. The integrated Intel AI Boost NPU handles local artificial intelligence tasks efficiently, ensuring smooth operation for tools like Microsoft Copilot and ASUS AI ExpertMeet without draining system resources. This combination allows users to run demanding business applications, engage in high-definition video conferencing, and process data with confidence.

Versatility is at the core of this notebook, offering extensive customization options to suit individual workflows. The chassis design prioritizes an uncluttered workspace by strategically placing I/O ports on both sides, ensuring mouse movement remains uninterrupted during long work sessions. Connectivity is robust, featuring Wi-Fi 6E for stable wireless connections and an optional slot for a nano SIM card to access 4G LTE networks in selected territories. This ensures you stay connected whether you are at the office, traveling, or working from a remote location with limited infrastructure.

The display experience is equally impressive, utilizing a NanoEdge design that maximizes screen real estate within a compact

frame. The 14-inch WUXGA panel offers a 16:10 aspect ratio and anti-glare coating to reduce eye strain during extended use, while TÜV Rheinland certification validates its eye protection features. Audio quality is enhanced by Dirac technology with dual speakers and smart amplifier protection, ensuring clear sound for presentations or multimedia consumption. For secure communication, the AI noise-canceling technology filters out background distractions, allowing your voice to be heard clearly in any environment.

Features:

Key Performance Specifications

- CPU: Intel Core Ultra 5 225H (14 cores including performance and efficient cores) with Turbo Boost up to 4.9 GHz
- Memory: 16GB DDR5-5600 SO-DIMM installed, expandable up to 64GB via two accessible slots
- Storage: 512GB PCIe M.2 SSD with support for an additional M.2 2280 or 2230 slot (note: LTE models may limit the second SSD)
- Graphics: Intel Arc Graphics 130T powered by a dedicated Neural Processing Unit (NPU) delivering 13 TOPS of AI performance
- Display: 14-inch WUXGA (1920 x 1200) LED-backlit non-glossy panel with 300 nits brightness and 84% screen-to-body ratio

Built for resilience, the ExpertBook B3 undergoes rigorous testing to meet US military-grade MIL-STD-810H standards. This durability ensures the laptop can withstand drops, vibrations, extreme temperatures, and dust exposure, making it suitable for front-line workers or frequent travelers. The design also incorporates over 25% post-consumer recycled materials, reflecting a commitment to sustainability without compromising on structural integrity. Users can rest assured that this device is engineered to maintain its aesthetic appeal and functional reliability even under demanding daily conditions.

Security is paramount for business users, which is why the ExpertBook B3 includes a comprehensive suite of enterprise-grade protections. The system supports Windows 11 Secured-core PC technology and features ASUS ExpertGuardian for enhanced defense against malware and firmware attacks. Physical security measures include a Kensington Nano Security Slot, a fingerprint sensor integrated with the power button, and a physical webcam shield to guarantee privacy when not in use. Additionally, McAfee Smart AI threat detection provides real-time monitoring to neutralize emerging cybersecurity risks before they can impact your data.

The connectivity options on this laptop are designed to eliminate the need for dongles and adapters. The device includes two USB 3.2 Gen 1 Type-A ports, two USB 3.2 Gen 2 Type-C ports that support power delivery and display output, an HDMI 2.1 port for external monitors, and a Gigabit Ethernet LAN port for stable wired connections. A microSD card reader and optional smart card reader further enhance its utility for various business scenarios. The inclusion of 4G LTE capability in this model ensures seamless internet access even when Wi-Fi is unavailable.

What's in the Box

- Asus ExpertBook B3 Laptop (NBAS90NX08L1-M04HY0)
- 65W Type-C AC Adapter with power cord
- User Manual and Warranty Documentation

The user experience is further refined through the MyASUS software suite, which allows for intuitive system customization and monitoring. Features include battery health charging modes to prolong lifespan, fan profile adjustments for cooling control, and screen optimization tools like Splendid and Tru2Life. For business users requiring specific configurations, image maker and BIOS customization can be performed directly from the factory to meet organizational standards. The laptop also includes a one-month trial of Microsoft 365, providing immediate access to essential productivity applications upon setup.

Maintaining this device is straightforward thanks to its user-centric design, which prioritizes ease of repairability. The chassis allows for quick access to memory and storage components without complex disassembly, ensuring minimal downtime during upgrades or maintenance. This approach aligns with the growing demand for sustainable products that can be repaired rather than replaced. With a high reparability index rating in certain regions, this laptop stands as a responsible choice for businesses aiming to reduce electronic waste.

Whether you are managing complex spreadsheets, attending global video conferences, or analyzing large datasets, the Asus ExpertBook B3 provides the power and reliability required to succeed. Its blend of AI-driven performance, military-grade toughness, and robust security features makes it a standout choice for professionals who cannot afford interruptions. The lightweight form factor ensures it remains portable without sacrificing the capabilities needed for serious business tasks.

Specifications:

Model	b3405cca / 90NX08L1-M04HYO
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 5 Processor 225H 1.7 GHz (18MB Cache, up to 4.9 GHz, 14 cores, 14 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 2280 PCIe 4.0 x4
	1x M.2 2230 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
	1x HDMI™ 2.1 TMDS
	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, Input: 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 1.05 - 1.90 cm (12.41" x 8.93" x 0.41" - 0.75")
Starting Weight (with Battery)	1.55 kg (3.42lbs)
Starting Weight (w/O Battery)	1.36 kg (3.00lbs)

Security	Kensington Nano Security Slot(6x 2.5mm)
	Fingerprint sensor integrated with Power Key
	Enhanced Password Strength
	Intel BIOS Guard
	Intel Boot Guard
	BIOS Integrity Measurement Support
	Support Absolute Persistence 2.0 (Computrace)
	Intel CSME Firmware Resilience
	Trusted Platform Module (TPM) 2.0
	BIOS Self Recovery
	BIOS Booting User Password Protection
	BIOS setup user password
	CSME BIOS Redundancy Assistance
	HDD User Password Protection and Security
	Microsoft Secured-core PC
	ASUS ExpertGurdian with NIST SP 800 155 compliance
	N/A
Antivirus	McAfee 30 days free trial
MyASUS feature	System diagnosis
	Battery health charging
	Fan Profile
	Splendid
	Tru2Life
	Function key lock
	AppDeals
	Link to MyASUS
MyExpert Features	ExpertMeet(AI1)
Built-in Apps	AI ExpertMeet (AI features need devices with 12GB RAM or more)
	MyASUS
Disclaimer for Built-in Apps	Built-in Apps vary from OS SKU.
Reparability Index (for Belgium)	9.5
Reparability Index (for France)	9.9

Ecolabels & Comphances.	EPEAT Gold with Climate+
	Energy star 9.0
	FSC Recycled
	REACH
	RoHS
	TCO Certified Generation 10

FAQ

Does this laptop support built-in cellular connectivity?

Yes, this model includes a built-in 4G (LTE) modem with an optional nano SIM slot, allowing you to connect to the internet without Wi-Fi in selected territories.

Can I upgrade the memory and storage on this notebook?

Absolutely. The laptop features two DDR5 SO-DIMM slots supporting up to 64GB of RAM and includes both an M.2 2280 slot for your SSD and an additional M.2 2230 slot, though note that the 2230 drive cannot be used if you have a specific LTE/5G configuration installed.

What security features are included to protect business data?

This device offers robust enterprise-grade protection including a physical webcam shield, fingerprint sensor integrated with the power key, TPM 2.0, and McAfee Smart AI threat detection for real-time cybersecurity defense.

Is the display suitable for use in bright environments?

The 14-inch WUXGA display features an anti-glare finish and high brightness of 300 nits, which helps minimize reflections and ensures clear visibility even under strong lighting conditions.

How does this laptop handle audio during video conferences?

Equipped with AI-powered two-way noise-canceling technology and dual-array microphones, the notebook effectively filters out background noise to ensure your voice is captured clearly for professional calls.

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-NBAS90NX08L1-M04HY0-Asus-ExpertBook-lp-340806.php

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