ComX Computers
Product Specification Sheet

AC16251_ARLHX_013_OLED

Alienware 16X Aurora AC16251 Core Ultra 2 Notebook Ultra 9 290HX 5.5GHz 32GB 1TB 16" WQXGA RTX 5070 8GB BT Win 11 Pro

Product Overview

Alienware 16X Aurora AC16251 Series Core Ultra Series 2 AC16251_ARLHX_013_OLED Indigo Notebook, Intel Core Ultra 9 290HX Plus Series 2 TwentyFour (24) Core Arrow Lake Turbo Boost up to 5.5Ghz 36MB L3 Cache Processor (8 Perfomance Cores & 16 Efficient Cores), 32GB DDR5-5600 SO-Dimm Memory (2x16GB), Supports 64GB Max Mem, 2 Memory slots, 1TB SSD Solid State Hard Drive PCIe, M.2 2280 slot, NO optical drive (No CD), 16" WQXGA (2560 x 1600 resolution) ComfortViewPlus 240Hz OLED Backlit Display, nVidia Geforce RTX 5070 with 8GB dedicated graphics, Intel AI Boost 13 TOPS, Wi-Fi 7, 10/100/1000 Gigabit Ethernet LAN, Bluetooth, Webcam, 6 Cell Battery, Backlit Keyboard, Full Size Keyboard with Numpad, 2x USB 3.2 Gen 1 (5 Gbps) ports, 1x USB 3.2 Gen 2 (10 Gbps) Type-C port with Power Delivery, 1x Thunderbolt 4 (40 Gbps) port with DisplayPort 2.1, HDMI output, 2.6 kg, Microsoft Windows 11 Professional 64 bit, 1 Year Next Business Day On-site warranty











Specifications

Summary Overview:

Upgrade your gaming experience in South Africa with the Dell Alienware 16X Aurora, a powerhouse notebook featuring an Intel Core Ultra 9 processor and NVIDIA GeForce RTX 5070 graphics. This sleek machine delivers exceptional performance on its stunning 240Hz OLED display, perfect for immersive gameplay or creative work on the go.

Laptop performance tier: High-End Gaming & Creative Pro

Uses:AAA Gaming, Video Editing, 3D Rendering, Streaming, Software Development

Overview:

Welcome to the future of high-performance computing with the Dell Alienware 16X Aurora gaming notebook, model AC16251_ARLHX_013_OLED. This powerhouse device is engineered for gamers and creators who demand uncompromising speed and visual fidelity in a sleek, portable form factor. Powered by the latest Intel Core Ultra Series 2 processor featuring twenty-four cores, it delivers rapid performance up to 5.5GHz while maintaining efficiency for everyday tasks. The machine is equipped with 32GB of high-speed DDR5 memory and a spacious 1TB SSD, ensuring your games load instantly and your workflows remain smooth. Whether you are battling in competitive shooters or rendering complex 3D scenes, this laptop provides the raw power needed to succeed.

Description

The Dell Alienware 16X Aurora combines elite gaming performance with a premium design, featuring an Intel Core Ultra 9 processor and NVIDIA GeForce RTX 5070 graphics for stunning visuals. It includes a vibrant 16-inch OLED display with 240Hz refresh rates, advanced cooling technology, and seamless connectivity via Wi-Fi 7 and Thunderbolt 4.

Features:

High-Performance Computing Power

The heart of this system is the Intel Core Ultra 9 290HX processor from Series 2, which integrates twenty-four cores including eight performance cores and sixteen efficient cores. This architecture ensures that whether you are multitasking or running intensive applications, the CPU handles everything with precision. The processor boasts a massive 36MB L3 cache and turbo boosts up to 5.5GHz for maximum speed. Complementing this processing power is the NVIDIA GeForce RTX 5070 laptop GPU with 8GB of dedicated GDDR7 memory, designed to handle ray tracing and AI-enhanced graphics with ease.

- Intel Core Ultra 9 290HX Processor (Series 2)
- Up to 5.5GHz Turbo Boost Speed
- 36MB L3 Cache for rapid data access
- NVIDIA GeForce RTX 5070 with 8GB GDDR7 VRAM
- Intel AI Boost providing 13 TOPS of neural processing power

Immersive Visual Experience

Gamers and content creators will appreciate the stunning 16-inch WQXGA display that offers a resolution of 2560 x 1600 pixels. The OLED technology delivers deep blacks and vibrant colors, supported by a rapid 240Hz refresh rate for ultra-smooth motion. With a brightness level of 500 nits and ComfortView Plus technology, this screen reduces eye strain while ensuring clarity even in bright environments. The panel also supports G-SYNC to eliminate screen tearing during fast-paced gaming sessions.

Advanced Cooling and Design

The Alienware 16X Aurora features an intentional design that prioritizes thermal efficiency without requiring a bulky rear shelf, making it easier to carry in bags and backpacks. The new Cryo-Chamber structure optimizes airflow by pulling cool air above the keyboard and through the chassis, exhausting heat through four side vents. This system utilizes dual fans with ultra-thin blades and three copper heat pipes to keep temperatures low during extended play. Users can also activate Stealth Mode via F7 to switch lighting to white and reduce fan noise for a quieter environment.

- Cryo-Chamber cooling structure for optimized airflow
- Dual fans with ultra-thin blades for quiet operation
- Three copper heat pipes for efficient heat dissipation
- Sleek Interstellar Indigo chassis finish
- No rear thermal shelf for improved portability

Connectivity and Expansion

This laptop is built to stay connected with the latest wireless standards, including Wi-Fi 7 and Bluetooth. It offers a robust selection of ports for peripherals and external displays. You can connect high-speed storage, gaming mice, or external monitors using the available USB Type-A and Type-C ports. The inclusion of Thunderbolt 4 ensures lightning-fast data transfer speeds up to 40 Gbps and support for DisplayPort 2.1 output via HDMI.

- Wi-Fi 7 (MediaTek MT7925) with MU-MIMO support
- 1x Thunderbolt 4 port (40 Gbps) with DisplayPort 2.1
- 1x USB 3.2 Gen 2 Type-C port with Power Delivery
- 2x USB 3.2 Gen 1 Type-A ports
- HDMI 2.1 output for high-resolution external displays
- Gigabit Ethernet LAN port for stable wired connections

The system comes pre-installed with Microsoft Windows 11 Professional 64-bit, providing a modern interface and enhanced multitasking tools. Users have access to the Alienware Command Center for full control over performance presets, lighting customization through AlienFX, and real-time system monitoring. The laptop also includes an integrated webcam with FHD RGB-IR HDR capabilities and dual-array microphones for clear communication during video calls or streaming.

Memory and Storage Configuration

To ensure smooth multitasking and quick load times, the device is equipped with 32GB of DDR5-5600 SO-DIMM memory installed in two accessible slots. This configuration allows users to upgrade the RAM up to a maximum of 64GB as their needs grow. Storage is handled by a fast 1TB PCIe NVMe SSD, which offers ample space for games and files while ensuring rapid boot times and application launches.

- 32GB DDR5-5600 Memory (2x16GB)
- Supports up to 64GB maximum memory
- Two user-upgradeable memory slots
- 1TB M.2 PCIe NVMe SSD storage
- No optical drive included for a slimmer profile

What's in the box

The package includes the Alienware 16X Aurora notebook, a power adapter to ensure reliable operation, and necessary documentation to get you started. The system is ready to use out of the box with Windows 11 Professional pre-installed.

Measuring approximately 14.05 inches in width and 10.45 inches in depth, this laptop strikes a balance between screen real estate and portability. The rear height stands at 0.92 inches while the front is 0.76 inches, contributing to its streamlined

silhouette. Weighing roughly 2.6 kg, it remains manageable for travel despite its powerful internals. The device also features a full-size keyboard with a numpad and AlienFX RGB backlighting for a comfortable typing experience in low-light conditions.

Specifications:

Processor	Intel Core Ultra Processor Se ries 2
Operating System	Windows 11 Home / Pro
Graphics Card	NVIDIA GeForce RTX 5060, 8 GB GDDR7
	NVIDIA GeForce RTX 5070, 8 GB GDDR7
Display	16", WQXGA, 240Hz, 100% DCI-P3, ComfortView Plus, G-SYNC
Memory	DDR5, 5600 MT/s, 2 slots
Storage	M.2 PCIe NVMe SSD
Keyboard	1-Zone AlienFX RGB Keyboard, English US
Mouse	No Mouse
Ports	2 USB 3.2 Gen 1 (5 Gbps) ports
	1 USB 3.2 Gen 2 (10 Gbps) Type-Cport with Power Delivery
	1 Thunderbolt 4 (40 Gbps) port with DisplayPort 2.1
	1 HDMI 2.1 port with Discrete Graphics Controller Direct Output
	1 universal audio jack (RCA, 3.5 mm)
	1 RJ45 ethernet port (1 Gbps)
	1 power-adapter port
	NOTE: To use NVIDIA G-SYNC, connect your computer to the monitor using an HDMI cable. Alternatively, you can use a USB-C to DisplayPort cable (purchased separately) to connect the monitor to the Thunderbolt 4 port on your computer.
Slots	No slots
Dimensions & Weight	Height (rear): 0.92 in. (23.40 mm)
	Height (front): 0.76 in. (19.20 mm)
	Depth: 10.45 in. (265.43 mm)
	Width: 14.05 in. (356.98 mm)
	Starting weight: 5.66 lb (2.57 kg)
	Maximum weight: 5.76 lb (2.61 kg)
	180W power adapter: 1.25 lb (0.58 kg)
	280W power adapter: 2.10 lb (0.95 kg)
Touchpad	Multi-touch gesture Premium Precision touchpad with integrated scrolling
Camera	1080p at 30 fps, FHD RGB-IR HDR camera, Dual-array microphones
Audio and Speakers	Stereo speakers, Realtek AL3204 Audio Controller, 2 W x 2 = 4 W total
Chassis	Interstellar Indigo
Wireless	MediaTek Wi-Fi 7 MT7925, 2x2, 802.11be, MU-MIMO, Bluetooth wireless card

FAQ

Can I upgrade the memory or storage on this Alienware 16X Aurora laptop?

Yes, this notebook features two user-upgradeable DDR5 SO-DIMM slots that support up to 64GB of RAM and includes M.2 PCIe SSD slots for expanding your storage capacity.

How does the display quality impact gaming performance on this model?

The 16-inch WQXGA OLED display offers a high refresh rate of 240Hz with G-SYNC support, ensuring smooth visuals that pair perfectly with the NVIDIA GeForce RTX 5070 graphics for immersive gameplay.

What connectivity options are available if I need to connect external monitors?

You can utilize the HDMI 2.1 port or the Thunderbolt 4 port which supports DisplayPort 2.1, allowing you to connect high-resolution displays with a USB-C to DisplayPort cable.

Is this laptop suitable for streaming or video creation tasks?

Absolutely, the Intel Core Ultra processor includes an NPU that works with NVIDIA Broadcast software to enhance audio and video quality, while the 1080p HDR camera supports professional-grade content creation.

Does the Alienware 16X Aurora come with a mouse or optical drive?

No, this model does not include an external mouse or an optical CD drive; it features a full-size keyboard with a Numpad and relies on solid-state storage for all your files.

Product Information Online

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

Product page:
https://comx-computers.co.za/Buy-Notebooks-Laptops-AC16251_ARLHX_013_OLED-Alienware-16X-Aurora-AC16251-Core-Ultra-lp-342093.php

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