

RAIDER 16 MAX HX B2WJ-047ZA

MSI Raider 16 MAX HX B2WJ Core Ultra 2 Notebook Ultra 9 290HX 5.5GHz 64GB 2TB 16" QHD+ RTX 5090 24GB BT Win 11 Home

Product Overview

MSI Raider 16 MAX HX B2WJ series Core Ultra Series 2 RAIDER 16 MAX HX B2WJ-047ZA Black 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 Performance Cores & 16 Efficient Cores), 64GB DDR5-6400 CSO-Dimm Memory (2x32GB), Supports 128GB Max Mem, 2 Memory slots, 2TB SSD Solid State Hard Drive PCIe, M.2 2280 slot + M.2 2280 Slot, NO optical drive (No CD), 16" QHD+ (2560 x 1600 resolution) Glossy Type 240Hz OLED Backlit Display, nVidia Geforce RTX 5090 with 24GB dedicated graphics, Intel AI Boost 13 TOPS, Wi-Fi 7, 2.5 Gigabit LAN, Bluetooth, Webcam, 4 Cell Battery, Backlit Keyboard, Full Size Keyboard with Numpad, 2x Thunderbolt 4 (DisplayPort / Power Delivery 3.1), 3x Type-A USB3.2 Gen2, HDMI output, SD Card Reader, 2.5 kg, Microsoft Windows 11 Home 64 bit, 2 Year Carry in warranty





Specifications

Summary Overview:

The MSI Raider 16 Max HX B2WJ is a flagship 16-inch gaming and creator laptop engineered for extreme performance. It combines an Intel Core Ultra 9 290HX Plus processor with an NVIDIA GeForce RTX 5090 24GB GPU, delivering desktop-class computing power in a portable chassis. The 16-inch QHD+ 240Hz OLED display ensures ultra-smooth visuals, deep contrast, and precise colour accuracy, making it ideal for competitive gaming and high-end creative workloads. With 64GB DDR5 memory and fast PCIe Gen4/Gen5 SSD storage, it is built for demanding multitasking and fast data access. Buy now to experience next-level gaming and productivity performance in South Africa.

User feedback across the Raider series highlights strong appeal among competitive gamers, 3D designers, and AI developers who require sustained high performance under heavy workloads. Reviews commonly emphasize its ability to maintain high frame rates in modern AAA titles, excellent thermal control under load, and premium display quality suited for both gaming and media production. Power users and content creators particularly value its upgradeability and workstation-grade stability for rendering, simulation, and AI-assisted workflows.

Laptop performance tier:Enthusiast / Desktop-Replacement Flagship

Uses:AAA gaming, 3D rendering, video editing, AI development, software engineering, streaming, CAD design, high-end content creation

Overview:

The MSI Raider 16 Max HX B2WJ is a high end 16 inch gaming laptop designed for users who need extreme performance for gaming, content creation, and AI driven workloads. It combines desktop level processing power with advanced graphics hardware in a portable chassis.

Built for demanding users, this machine focuses on sustained performance, fast multitasking, and high refresh visuals. It is aimed at gamers and professionals who want a future ready system with strong upgrade potential and modern connectivity.

Features:

Gaming laptop performance built for AI and creators

The Raider 16 Max HX is positioned as a flagship performance laptop from MSI. It supports heavy workloads such as AAA gaming, 3D rendering, video production, and AI assisted applications while maintaining high frame rates and system responsiveness.

Processor and computing power

Powered by an Intel Core Ultra 9 290HX Plus processor (24 cores combining performance and efficiency cores), this laptop delivers strong multi-threaded and single-core performance.

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- 24 cores (8 performance cores and 16 efficiency cores)
- Turbo boost up to 5.5 GHz
- Built-in AI acceleration support
- Designed for high sustained workloads

Intel Core Ultra architecture improves efficiency while supporting demanding gaming and productivity tasks.

Graphics performance

Graphics are handled by the NVIDIA GeForce RTX 5090 Laptop GPU with 24GB GDDR7 memory, delivering top tier gaming and rendering capability.

- RTX 5090 Laptop GPU
- 24GB dedicated GDDR7 VRAM
- DLSS 4 support for AI enhanced frame generation
- Full ray tracing and neural rendering support

NVIDIA Blackwell architecture enables high visual fidelity and strong AI assisted performance scaling.

Memory and storage

The system is built for speed and scalability with high capacity components.

- 64GB DDR5 6400MHz memory (expandable up to 128GB)
- Dual memory slots
- 2TB PCIe NVMe SSD storage
- Dual M.2 slot support for upgrades

Display quality

A premium 16 inch QHD+ OLED panel delivers sharp visuals and fast response times.

- 2560 x 1600 resolution
- 240Hz refresh rate
- OLED panel with deep contrast
- 100% DCI-P3 color coverage
- HDR True Black 1000 certification

This display is suited for competitive gaming as well as color sensitive creative work.

Cooling and sustained performance

MSI Cooler Boost system is designed to maintain performance under load with improved airflow design.

- Triple fan cooling system
- Multiple heat pipes for thermal distribution
- High airflow exhaust system
- Designed to reduce thermal throttling during gaming sessions

Connectivity and ports

The laptop includes a wide range of modern ports for peripherals and external displays.

- 2 x Thunderbolt 4 (DisplayPort and Power Delivery)
- 3 x USB 3.2 Gen2 Type-A
- HDMI output (high resolution external display support)
- SD card reader
- RJ45 Ethernet port
- Audio combo jack
- Kensington lock slot

Wireless and networking

- Wi-Fi 7 support for high speed wireless connectivity

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- Bluetooth support
- 2.5 Gigabit LAN for stable wired networking

Design and build

The Raider 16 Max HX features a large chassis designed for cooling efficiency and performance headroom. It includes a full size keyboard with number pad and RGB lighting for customization.

- Backlit full size keyboard with numpad
- Customizable RGB lighting zones
- Approximate weight 2.5 kg

Audio and battery

- High output speaker system with woofers and speakers
- 91.8Wh battery capacity
- Designed for extended unplugged usage under mixed workloads

Software and AI tools

The system includes MSI AI Engine for automatic performance tuning based on workload type. It also supports Microsoft Copilot for AI assisted productivity tasks such as writing, summarizing, and workflow assistance.

Microsoft Windows 11 provides the operating environment, optimized for gaming and productivity performance.

Key highlights

- Intel Core Ultra 9 290HX Plus 24 core processor
- NVIDIA RTX 5090 Laptop GPU with 24GB VRAM
- 16 inch QHD+ OLED 240Hz display
- Up to 128GB DDR5 memory support
- Dual SSD upgrade capability
- Wi-Fi 7 and 2.5Gb Ethernet
- Advanced cooling system for sustained performance
- Designed for gaming, AI workloads, and creative production

Specifications:

Item	Raider 16 Max HX B2WJ
CPU	Up to Intel Core Ultra 200HX Series processors
OS	Windows 11 Home (MSI recommends Windows 11 Pro for business.)
	Windows 11 Pro
Display	16" QHD+ (2560x1600), 240Hz, IPS-Level
	Low blue light& Flicker free certified by SGS
	VESA DisplayHDR True Black 1000
	16" QHD+ (2560x1600), OLED, 240Hz, 100% DCI-P3
	SGS Eye Care Display
	VESA DisplayHDR True Black 1000
Chipset	Intel HM870
Graphics	NVIDIA GeForce RTX 5090 Laptop GPU 24GB GDDR7 powers advanced AI with 1824 AI TOPS
	2160MHzx Up to Boost Clock 175W Maximum Graphics Power with Dynamic Boost. *May vary by scenario
	*Power Efficiency

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CPU and GPU Combined Power	Max. 300W CPU-GPU Power with MSI OverBoost Technology.
	*Full Power CPU & GPU
Memory	Up to DDR5-6400
	Max 128GB
	2 Slots
	*The actual frequency will vary by memory combination and CPU capability.
Storage Capability	1x M.2 SSD slot (NVMe PCIe Gen4), 1x M.2 SSD slot (NVMe PCIe Gen5) Compatible
Security	Firmware Trusted Platform Module(fTPM) 2.0
	Kensington Lock
	Webcam Shutter
Webcam	IR FHD type (30fps@1080p) with HDR
	3D Noise Reduction+ (3DNR+)
Keyboard	Per-Key RGB Gaming Keyboard by SteelSeries with Copilot Key
Communication	2.5GbE Lan
	Intel Killer BE Wi-Fi 7 + Bluetooth 5.4
Audio	2x 2W Speaker
	2x 2W Woofer
	Array Microphone
Audio Jack	1x Mic-in/Headphone-out Combo Jack
I/O ports	1x RJ45
	2x Thunderbolt 4 (DisplayPort / Power Delivery 3.1)
	3x Type-A USB3.2 Gen2
	1x SD (XC/HC) Card Reader
	1x HDMI 2.1 (8K @ 60Hz / 4K @ 120Hz)
Battery	4-Cell
	91.8 Battery (Whr)
Adapter	400W adapter
Dimension (WxDxH)	363 x 269.7 x 21.95 - 28.85 mm mm
Weight (w/ Battery)	2.6 kg
Color	Core Black
Xbox Game Pass	2 Month Xbox Game Pass Essential included.

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Product Specification Sheet

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-RAIDER-16-MAX-HX-B2WJ-047ZA-MSI-lp-337382.php>

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