

IL-1U-MAX-ULTRA SERIES

IRON LINK® 1U MAX ULTRA AI-READY FULL DEPTH SYSTEM

PRODUCT OVERVIEW

The IL-1U-MAX-ULTRA is a powerful AI-ready 1U full-depth rackmount system built for high-performance edge AI and GPU-accelerated workloads. Designed for maximum flexibility, it supports two full-height/full-length GPUs and is powered by Intel® Core™ Ultra Processors. With up to 96TB of hot-swappable storage, 8x 4K video channels, and a redundant power supply for enhanced reliability, the IL-1U-MAX-ULTRA is ideal for AI inference, video analytics, and data-intensive applications. Pre-installed with Windows® 11 IoT or Ubuntu® and backed by a 5-Year Next Business Day w/ KYHD warranty, this system ensures scalability, efficiency, and resilience in demanding environments.



KEY FEATURES



Up to 96TB Hot-Swappable Storage



Intel® Core™ Ultra Processor



Supports Two Full-Height/Full-Length GPUs



Up to Eight 4K Video Channels



5-Year NBD On-Site with KYHD



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IRON LINK[®] 1U MAX ULTRA AI-READY FULL DEPTH SYSTEM

SYSTEM

Operating System:

Windows[®] 10/11 IoT Enterprise
Windows[®] 11 Pro
Ubuntu[®] Linux

Supported CPU:

(1) Intel[®] Core™ Ultra

Memory Configuration:

Up to 128GB DDR5

Networking:

(1) Intel[®] i219LM 1GbE NICs
(1) Intel[®] i226v 2.5GbE NICs
Optional Intel[®] Wi-Fi 6

PCIe x16 Support:

(1) NVIDIA[®] RTX™ 4000 Ada
(1) NVIDIA[®] RTX™ PRO 4000 Blackwell
(2) NVIDIA[®] RTX™ A1000
(2) NVIDIA[®] RTX™ A400
(1) NVIDIA[®] RTX™ 2000 Ada
(1) NVIDIA[®] RTX™ PRO 2000 Blackwell
(1) Network Interface Card
(1) RAID Adapter

MECHANICAL

Form Factor:

1U Full Depth Rackmount

Power Supply:

(2) 500W Redundant 80+ PSU
90–264V AC Input Voltage

Operating Temperature:

32°F – 104°F (0°C – 40°C)

Dimensions (WxDxH):

17.3" x 23.6" x 1.75"
(440 mm x 600mm x 44.5 mm)

Weight:

28 lb (12.7 kg)

Warranty:

5-Year NBD On-Site with KYHD

STORAGE + PORTS

Storage Slots:

(4) Hot-Swap 3.5" SATA/SAS
(2) Fixed 2.5" SSD
(1) M.2 NVMe 2280 SSD
(1) M.2 NVMe/SATA 2242 SSD

Expansion Slots:

Up to (2) PCIe x16 Slots (FHFL)
(1) M.2 2280 PCIe Gen4 x4
(1) M.2 2242 PCIe Gen4 x4/SATA
(1) M.2 3042/3052 PCIe x1, USB, SIM

I/O Ports:

(1) USB 4/Thunderbolt™ 4
(5) USB 3.2 Gen2
(2) USB 3.2 Gen1
(2) USB 2.0
(2) COM RS-232/422/485
(1) 2.5GbE RJ45
(1) 1GbE RJ45
(2) HDMI 2.1
(1) DP 2.1, from Type-C
(1) DP 1.4a
(1) LVDS or eDP