IRON LINK
POWERED BY VELASEA

IL-1U-MAX SERIES

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

PRODUCT OVERVIEW

The IL-1U-MAX 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® 14th Gen Core™ processors. With up to 96TB of hot-swappable storage, eight 4K video channels, and a redundant power supply for enhanced reliability, the IL-1U-MAX is ideal for AI inference, video analytics, and data-intensive applications. Pre-installed with Windows® 10 IoT or Ubuntu® and backed by a 3-year depot warranty, this system ensures scalability, efficiency, and resilience in demanding environments.

KEY FEATURES

- Up to 96TB Hot-Swappable Storage
- Intel® Core™ 14th Generation Processors
- Supports Two (2) Full-Height/Full-Length GPUs
- Up to Eight (8) 4K Video Channels
- 3-Year Depot Warranty

Images displayed are for general reference only and may differ based on build. Product specifications are provided for informational purposes only, and are subject to change, correction, or revision without notice. It is the customer's responsibility to validate product specifications prior to purchase or installation, and to ensure that those specifications are suitable for a particular use. Please refer to velasea.com or contact your sales representative for the latest IRON LINK® products, specs, and upcoming releases. Intel®, Core™, Xeon®, and the Intel® logo are trademarks of Intel Corporation. Microsoft® and Windows® are trademarks of Microsoft Corporation. Ubuntu® and the Ubuntu® logo are trademarks of Canonical Corporation. NVIDIA® and the NVIDIA® logo are trademarks of NVIDIA Corporation.

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SYSTEM

Operating System:
Windows® 10/11 IoT Enterprise
Windows® 11 Pro
Ubuntu® Linux

Supported CPU:
(1) 14th Gen Intel® Core™ i3–i9

Memory Configuration:
Up to 64GB DDR4 RAM

Networking:
(2) Intel® i225 2.5GbE NICs
Optional: (1) Intel® WiFi 6

PCIe x16 Support:
(2) NVIDIA® RTX 4000 Ada
(2) NVIDIA® RTX A1000
(2) NVIDIA® RTX A400
(1) NVIDIA® RTX 2000 Ada
(1) RAID Controller
(1) Network Interface Card

MECHANICAL

Form Factor:
1U Full Depth Rackmount

Power Supply:
(2) 500W Redundant Hot-Swap
80+ Gold PSU 90–264VAC

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:
3-Year Depot Warranty

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:
(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) HDMI 2.0b
(2) DP 1.4a
(1) VGA
(2) 2.5GbE LAN
(4) USB 3.2, Gen2
(1) Mic-In/Line-Out
(2) COM RS-232/422/485

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