

IL-1U-PLUS-ULTRA SERIES

IRON LINK® 1U PLUS ULTRA DUAL-GPU SHORT DEPTH SYSTEM

PRODUCT OVERVIEW

The IL-1U-PLUS-ULTRA is a high-performance 1U short-depth rackmount system designed for demanding edge AI applications. Engineered for extreme flexibility, it supports two full-height/full-length GPUs and is powered by an Intel® Core™ Ultra processor. With up to 22TB of storage, 8x 4K video channels, and a compact 13.5" chassis, it delivers powerful computing in a space-efficient design. Pre-installed with Windows® 11 IoT or Ubuntu®, the IL-1U-PLUS-ULTRA is an ideal solution for AI inference, video analytics, and other GPU-accelerated workloads. Backed by a 5-Year Next Business Day w/ KYHD warranty, it ensures reliability for mission-critical deployments.



KEY FEATURES



Up to 22TB Storage



Intel® Core™ Ultra Processor



Supports Two Full-Height/Full-Length GPUs



Short Depth 1U Chassis - 13.5"



Up to Eight 4K Video Channels



5-Year NBD On-Site with KYHD



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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

MECHANICAL

Form Factor:

1U Short Depth Rackmount

Power Supply:

(1) 500W 80+ PSU
90–264V AC Input Voltage

Operating Temperature:

32°F – 104°F (0°C – 40°C)

Dimensions (WxDxH):

17.3" x 13.6" x 1.75"
(440 mm x 345 mm x 44.5 mm)

Weight:

11 lb (4.99 kg)

Warranty:

5-Year NBD On-Site with KYHD

STORAGE + PORTS

Storage Slots:

(1) M.2 NVMe 2280 SSD
(1) M.2 NVMe/SATA 2242 SSD

(2) Fixed 2.5" SSD

-or-

(1) Fixed 3.5" 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) 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