IRON LINK®

IL-VWC4UM SERIES

IRON LINK® PROFESSIONAL 4U MAX RACKMOUNT/TOWER 3/8 BAY VIDEO WALL CONTROLLER

PRODUCT OVERVIEW

The Iron Link® VWC4UM is a high-performance 4U rackmount or tower video wall controller built for large-scale visualization environments such as security operations centers, command centers, and critical monitoring facilities. Powered by Intel® Xeon® W-2500 or W-3500 processors, the platform supports up to 2TB of ECC DDR5 memory and up to 256TB of storage, delivering the compute and graphics capacity required for complex multi-display deployments. With support for up to 28 video outputs and multiple professional GPUs, the IL-VWC4UM enables expansive, high-resolution video wall configurations for real-time situational awareness. Designed for reliability with dedicated hardware RAID, optional redundant power, and remote management, the system provides a scalable, purpose-built foundation for advanced visualization workloads backed by Velasea's 5-year next-business-day on-site support.

KEY FEATURES

- Up to 256TB of Storage
- Enterprise Class SATA Drives
- Intel® Xeon® W-2500 -OR- W-3500
- Dedicated Hardware RAID Controller
- OPTIONAL Redundant Power Supply
- 5-Year NBD On-Site with KYHD

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SYSTEM

Operating System:
Windows® 11 Pro
Windows® 10/11 IoT Enterprise
Ubuntu® Linux 20/22/24.04

Supported CPU:
(1) Intel® XEON W-2500 / 3500

Memory Configuration:
(4) RDIMM Slots (W-2500)
Up to 1TB DDR5 288-pin ECC RDIMM
(8) RDIMM Slots (W-3500)
Up to 2TB DDR5 288-pin ECC RDIMM

Embedded Networking:
(2) RJ45 10GbE Ports

Expansion Slots:
(4) PCIe 5.0 x16 (W-2500)
(7) PCIe 5.0 x16 (W-3500),
(1) x8 Electrical

GPU Support:
Up to (4) Double/Single Wide FH GPU (W-2500)

Up to (4) Double Wide FH GPU -OR-
Up to (7) Single Wide FH GPU (W-3500)

Onboard Management:
Dedicated IPMI

Security Module:
Trusted Platform Module (TPM)

MECHANICAL

Form Factor:
4U Rackmount

Power Supply:
(1) 2500W / 1600W (240v/120v)
Fixed 100-240V AC 80+ Platinum

 - OPTIONAL: Redundant Power

Environmental:
Operating Temperature:
50°F ~ 95°F (10°C ~ 35°C)

Non-Operating Temperature:
-40°F – 149°F (-40°C – 65°C)

Operating Rel. Humidity:
20% – 80% (non-condensing)

Non-Operating Rel. Humidity:
5% – 95% (non-condensing)

Dimensions (WxDxH):
16.9" x 23.5" x 6.9"
(430mm x 596mm x 174.8mm)

Weight:
60 lb (27.2 kg)

Warranty:
5-Year NBD On-Site with KYHD

STORAGE + PORTS

Drive Bays:
(3) Internal 3.5" SATA / SAS

OPTIONAL:
(5) Hot-Swap 3.5" SATA / SAS

M.2 Slots:
(1) M.2 2280 (PCIe4.0 x4) -
W-2500 / W-3500

(2) M.2 2280 (PCIe5.0 x4) -
W-3500 Only

Supported RAID Levels:
OS M.2 SSD drives: 0, 1
Data drives: 0, 1, 5, 6, 10

RAID Controller:
LSI MegaRAID SAS 9560-8i
(4GB Cache)
 -OR-
RocketRAID RR3720C 8-Port
Cacheless

I/O Ports:
FRONT:
(2) USB 2.0

REAR:
(2) USB 3.2 Gen2 Type-C
(4) USB 3.2 Gen 2 Type-A
(1) USB 3.2 Gen2 Type-C
(2) USB 2.0 Type-A

Video Outputs:
(1) VGA