IRON LINK
POWERED BY VELASEA

IL-R424P SERIES

IRON LINK® PROFESSIONAL 4U RACKMOUNT 24-BAY NETWORK VIDEO RECORDING SERVER

PRODUCT OVERVIEW

The Iron Link® R424P is a high-capacity 4U rackmount NVR server built for large-scale surveillance deployments that demand exceptional storage density and reliable performance. Powered by Intel® Core™ Ultra desktop processors, the system supports up to 256GB of ECC DDR5 memory and an impressive 768TB of raw storage across 24 hot-swap 3.5" bays. Designed for high camera-count environments, the platform integrates enterprise-class drives, dedicated hardware RAID, redundant hot-swap power supplies, and remote management to ensure dependable operation in mission-critical security infrastructure. Purpose-built for video surveillance workloads, the IL-R424P is backed by Velasea's 5-year next-business-day on-site support for long-term operational confidence.

KEY FEATURES

- Up to 768TB of Storage
- Intel® Core™ Ultra Desktop Processors
- Enterprise Class SATA Drives
- Dedicated Hardware RAID Controller
- Redundant Power Supply
- 5-Year NBD On-Site with KYHD



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. The Canopy logo is a trademark of Banyan Hills Technologies.

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SYSTEM

Operating System:
Windows® 11 Pro
Windows® 10/11 IoT Enterprise
Windows® Server IoT 2022/2025 Std.
Ubuntu® Linux 20/22.04

Supported CPU:
(1) Intel® Core™ Ultra

Memory Configuration:
(4) UDIMM Slots
Up to 256GB DDR5 288-pin ECC

Embedded Networking:
(2) 1GbE RJ45

Expansion Slots:
(1) PCIe 5.0 x16
(1) PCIe 5.0 x4 (RAID Card)

Onboard Management:
Dedicated IPMI

Security Module:
Trusted Platform Module (TPM) 2.0

MECHANICAL

Form Factor:
4U Rackmount

Power Supply:
(2) 1200W 100-240V AC
Platinum Hot-Swap

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):
17.7" x 20.9" x 6.9"
(449.2 mm x 532 mm x174.2 mm)

Weight:
102 lb (46.3kg)

Warranty:
5-Year NBD On-Site with KYHD

STORAGE + PORTS

Drive Bays:
(24) Hot-Swap 3.5" SATA / SAS
(2) Hot-Swap 2.5" SATA

M.2 Expansion:
(2) M.2 2280 (PCIe4.0 x4)

Supported Software RAID Levels:
OS SSD drives: 0, 1
Data drives: 0,1,5,6,10

RAID Controller:
LSI MegaRAID SAS 9560-16i
(8GB Cache)

I/O Ports:
FRONT:
(2) USB 3.0

REAR:
(2) Type-A (USB3.2 Gen1)
(1) RS232
(1) RJ45 IPMI

Video Outputs:
(1) VGA Port
(1) HDMI
(1) Display Port

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