

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



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SYSTEM

Operating System:

Windows® 11 Pro
 Windows® 10/11 IoT Enterprise
 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) 10GbE RJ45
 (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 x 174.2 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