IRON LINK
POWERED BY VELASEA

IL-R316P SERIES

IRON LINK® PROFESSIONAL 3U RACKMOUNT 16-BAY NETWORK VIDEO RECORDING SERVER

PRODUCT OVERVIEW

The Iron Link® R316P is a high-density 3U rackmount NVR server designed for enterprise and mission-critical surveillance environments requiring maximum storage and reliability. Powered by Intel® Core™ Ultra processors, the system supports up to 256GB of ECC DDR5 memory and 512TB of raw storage across 16 hot-swap 3.5" SAS bays, plus optional 2.5" drives. Featuring dedicated hardware RAID, redundant hot-swap power supplies, and integrated remote management, the IL-R316P delivers scalable, resilient performance for large-scale video surveillance deployments and backed by Velasea's 5-year next-business-day on-site support.

KEY FEATURES

- Up to 512TB of Raw Storage
- Enterprise Class SATA Drives
- Intel® Core™ Ultra Processors
- 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:
3U Rackmount

Power Supply:
(2) 800W 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):
17.6" x 26" x 5.2"
(448 mm x 660 mm x 132.1 mm)

Weight:
70 lb (32 kg)

Warranty:
5-Year NBD On-Site with KYHD

STORAGE + PORTS

Drive Bays:
(16) Hot-Swap 3.5" 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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