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

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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:
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