

IL-R102N SERIES






IRONLINK® 1U RACKMOUNT 2-BAY VIDEO WALL CONTROLLER

PRODUCT OVERVIEW

The IronLink® Video Wall Controller is the ultimate solution for Security Operation Centers, Network Operation Centers, large LED billboards, or any multi-display environment. Engineered to support multiple powerful NVIDIA® GPUs, it delivers unparalleled performance and seamless control for managing complex visual environments. Whether monitoring critical security feeds, coordinating network operations, or showcasing vibrant advertising content, this controller ensures high-resolution displays synchronized across multiple screens. Its robust design, combined with intuitive software, provides a reliable and scalable platform fit for modern visual management systems.



KEY FEATURES

-  Up to (8) 4K Outputs w/ GPU's
-  Windows® + Ubuntu® OS Options
-  Powerful + Compact 1U Format
-  Multiple RAID Storage Options
-  Up to 3-Year Depot Warranty



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SYSTEM

Operating System:

Windows® 10/11 IoT Enterprise
Ubuntu® Linux 20/22.04

Supported CPU:

13th Gen Intel® Core™ i3-i9 + K

Memory Configuration:

(2) SO-DIMM Slots
Up to 96GB DDR5 Non-ECC

Embedded Networking:

(1) RJ45 1GbE
(1) RJ45 2.5GbE

Expansion Slots:

(2) PCIe 5.0 x16 FH/FL
(x8 Electrical)
(1) M.2 2230 PCIe x1, USB, CNVI
(1) M.2 3042/3052 PCIe x1,
USB, SIM

GPU Support:

Up to (2) Single Wide FH/FL

Capture Card Support:

HDMI (HD) - Single/Dual/Quad
w/ Loop Through Options
HDMI (4K) - Single/Dual w/
Loop Through Options
SDI (HD) - Single/Dual/Quad
SDI (4K) - Single/Dual

Security Module:

Trusted Platform Module 2.0

MECHANICAL

Form Factor:

1U Rackmount

Power Supply:

(2) 600W

Environmental:

Operating Temperature:
50°F ~ 95°F (0°C ~ 45°C)

Non-Operating Temperature:
-40°F – 158°F (-40°C – 70°C)

Operating Rel. Humidity:
8% – 90% (non-condensing)

Non-Operating Rel. Humidity:
20% – 95% (non-condensing)

Dimensions (WxDxH):

17.2" x 19.9" x 1.7"
(437 mm x 505 mm x 43 mm)

Weight:

30 lb (13.6 kg)

Warranty:

1-Year Depot Parts
Replacement After Diagnosis

3-Year Depot Parts
Replacement After Diagnosis
(Optional)

STORAGE + PORTS

Drive Bays:

(2) Hot-Swap 3.5" SATA
(2) Internal Fixed 2.5" SATA

M.2 Slots:

(1) M.2 NVMe (M-Key 2280)
(1) M.2 NVMe (M-Key 2242)

Supported RAID Levels:

Software RAID 0, 1

I/O Ports:

FRONT:

(2) USB 2.0

REAR:

(4) USB 3.2
(2) USB 2.0
(2) COM via DB9
(RS-232/422/485)

Video Outputs:

(1) HDMI Port
(1) VGA Port