

IL-AIO SERIES

IRONLINK® CLOUD MANAGED ALL-IN-ONE NVR








PRODUCT OVERVIEW

The IL-AIO-NVR is an intelligent IP video surveillance appliance that provides scalability and security in one unit. This solution combines a managed switch, PoE, storage, and AI accelerator options, all bundled with health monitoring for edge video recording and viewing. Models include 8, 16, and 24-port appliances with a 12th Gen Intel® Core™ processor.

More than an NVR, these appliances offer a low total cost of ownership and leverage Canopy Cloud Management for remote device management to significantly reduce truck rolls to customer sites.



KEY FEATURES

-  Up to 96TB of Raw Storage
-  Windows® 10 IoT 2021
-  12th Gen Intel® Core™ Processor
-  Canopy Cloud Management
-  Built-in 8/16/24 PoE Port, 802.3af/at
-  3-Year NBD Advanced Replacement with KYHD
-  AI-Ready Appliance



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FEATURES

- ★ H.264/H.265 recording and playback
- ★ 3MP/5MP/4K IP camera support
- ★ (2) Built-in HDMI and (1-2) DisplayPort outputs
- ★ Supports 4K/2K/1080p local display output
- ★ Built-in 8/16/24 PoE port, 802.3af/at
- ★ (2) Built-in 2.5G WAN and 1/2x Giga LAN ports
- ★ Built-in USB 3.2, Gen II
- ★ (3-4) Built-in M.2 interface for feature expandability
- ★ Built-in digital-input / relay-out + RS232/RS485
- ★ Display layout customizable by user
- ★ System status monitor (CPU, RAM, Network, Fan, HDD, Temp)
- ★ Supports PoE management + power budget control
- ★ iSCSI NAS Storage support (16/24 port model only)
- ★ VA event management
- ★ VCA (video content analysis) report
- ★ Support TPM 2.0 (FIPS 140-2*/FIPS 140-3*)
- ★ Standard PCIe card supporting for specific function
- ★ Up to 128 CH real-time live display or playback



IL-AIO SERIES SPECIFICATIONS

MODEL	IL-AIO-8PH	IL-AIO-16PH	IL-AIO-24PH
System			
Operating System	Windows® 10 IoT / Ubuntu® Linux		
CPU	Intel® Alder Lake i3, i7 (Optional: i5)	Intel® Alder Lake i5 (Optional: i3/i7)	Intel® Alder Lake i7, i9 (Optional: i3/i5)
RAM	(2) DDR5, 8GB / Optional: (2) 16GB		
Boot Drive	M.2 SSD, PCIe x4, 512GB		
Graphics	Intel® UHD Graphics 730 / 770		
AI Accelerator	Hailo-8 Inferencing Module		
DisplayPort Output	(1) Up to 7680x4320 @ 60Hz	(2) Up to 7680x4320 @ 60Hz	
HDMI Output	(2) Up to 4096x2160 @ 60Hz		
Audio Input	(1) MIC-in, 3.5 mm, TRS phone jack		
Audio Output	(1) Line-out, 3.5 mm, TRS phone jack		
USB Port	(2) USB 2.0; (2) USB 3.2; (front) (1) USB 3.2, Type-C (rear)	(2) USB 2.0; (1) USB 3.2 (front) (1) USB 3.2; (1) USB 3.2, Type-C (rear)	
Recording / Playback*			
IPCAM Throughput	Average: 320Mbps (with i3) Peak: 420Mbps (with i3)	Average: 640Mbps (with i5) Peak: 840Mbps (with i5)	
GPU Hardware Decoding	64CH real-time display (with i3) Up to 1920 fps @ D1 decoding	128CH real-time display (with i5) Up to 3840 fps @ D1 decoding	
Compression Format	H.264 / H.265		
Storage + I/O			
SATA Interface	(1) 3.5" SATA	(4) 3.5" SATA	
eSATA Interface	(1) eSATA	N/A	
Hardware RAID*	N/A	RAID 0/1/5/10	
M.2 Interface (M-key)	(1) PCIe x4; (2) PCIe x2	(3) PCIe x4; (1) PCIe x2	
Digital Input*	Optional: (4) Input level ±24V DC, Terminal Block		
Relay Output*	Optional: (4) 24V, 1A, Solid State Relay, Terminal Block		
COM Port*	Optional: (1) RS-232/RS485, Terminal Block		
Network			
WAN Uplink	(2) RJ-45, 10M/100M/1G/2.5 Gbps		
LAN Uplink	(1) RJ-45, 10/100/1000 Mbps	(2) RJ-45, 10/100/1000 Mbps	
LAN + PoE	(8) RJ-45, 10/100 Mbps	(16) RJ-45, 10/100 Mbps	(24) RJ-45, 10/100 Mbps
PoE Level	(8) IEEE 802.3 af/at	(16) IEEE 802.3 af/at	(24) IEEE 802.3 af/at
PoE Budget	120W	240W	360W
PoE + Switch Management	Windows® 10 SDK / Linux SDK		
General			
Unit Dimensions (mm)	220 x 244 x 44	428 x 435 x 44	
Unit Weight (kg)	1	4.5	4.5
Package Dimensions (mm)	458 x 321 x 110	575 x 575 x 175	
Package Weight (kg)	1.14	4.67	4.67
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F		
Operating Relative Humidity	10% ~ 90% (non-condensing)		
System Power Supply	100~240V AC, 250W (56V / 4.46A)	100~240V AC, 420W (53V / 280W, 12V / 140W)	100~240V AC, 520W (53V / 360W, 12V / 160W)