

# IL-AIO-M SERIES




## IRONLINK® CLOUD MANAGED ALL-IN-ONE AI NVR FOR MILESTONE

### PRODUCT OVERVIEW

The IL-AIO-M is an intelligent IP video surveillance appliance purpose-built for Milestone XProtect® that provides scalability and high tech security features 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 RMM at no extra cost for remote device management that significantly reduces truck rolls to customer sites, saving time and money.



### KEY FEATURES

-  Up to 96TB of Raw Storage
-  12th Gen Intel® Core™ Processor
-  Built-in 8/16/24 PoE Port, 802.3af/at
-  Powered by the Hailo-8 Inferencing Module
-  4-Stream Perpetual CVEDIA License Included
-  Milestone Preloaded and License-Ready
-  Canopy Remote Management Onboard
-  3-Year NBD Advanced Replacement with KYHD



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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, Memory, Network, Fan, HDD, Temperature)
- ★ 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-M SERIES SPECIFICATIONS

| MODEL                       | IL-AIO-M-8PH   | IL-AIO-M-16PH   | IL-AIO-M-24PH                                 |
|-----------------------------|--|---|---|
| System                      |  |   |   |
| Operating System            | Windows® 10 IoT / Ubuntu® Linux                                  |   |   |
| CPU                         | Intel® Alder Lake i3, i7<br>(Optional: i5)                       | Intel® Alder Lake i5<br>(Optional: i3/i7)                                   | Intel® Alder Lake i7, i9<br>(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)<br>(1) USB 3.2, Type-C (rear)  | (2) USB 2.0; (1) USB 3.2 (front)<br>(1) USB 3.2; (1) USB 3.2, Type-C (rear) |   |
| Recording / Playback*       |  |   |   |
| IPCAM Throughput            | Average: 320Mbps (with i3)<br>Peak: 420Mbps (with i3)            | Average: 640Mbps (with i5) Peak:<br>840Mbps (with i5)                       |   |
| GPU Hardware Decoding       | 64CH real-time display (with i3)<br>Up to 1920 fps @ D1 decoding | 128CH real-time display (with i5)<br>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<br>(56V / 4.46A)                               | 100~240V AC, 420W<br>(53V / 280W, 12V / 140W)                               | 100~240V AC, 520W<br>(53V / 360W, 12V / 160W) |