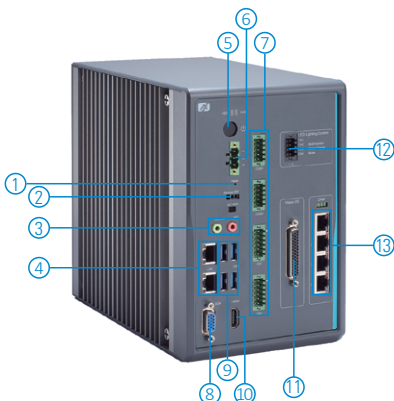


# MVS900-511-FL

Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Vision I/O, 4-CH PoE and 4-CH LED Output



- |                                                                                  |                                                                        |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------|
| 1. Reset switch                                                                  | 8. VGA                                                                 |
| 2. Remote switch                                                                 | 9. 4 x USB 3.0                                                         |
| 3. Mic-in & Line-out                                                             | 10. HDMI                                                               |
| 4. 2 x LAN                                                                       | 11. Vision I/O: 4-in/4-out trigger I/O,<br>8-in/8-out DIO, 2 x encoder |
| 5. Power switch                                                                  | 12. LED lighting control: trigger and<br>strobe mode                   |
| 6. Terminal block                                                                | 13. 4 x IEEE802.3at GbE LAN port                                       |
| 7. 2 x RS-232/422/485<br>1 x 8-in/8-out DIO with isolated<br>1.5 kVDC protection |                                                                        |

## Features

- Integrated real-time vision I/O
  - 4-CH trigger input
  - 4-CH trigger output
  - 4-CH LED lighting control
  - 2-CH quadrature encoder input
  - 16-CH isolated DIO
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +60°C operating temperature range with W.T. SSD
- Supports 2 swappable 2.5" HDD
- Supports TPM 2.0 function



## Specifications

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Color      | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Construction        | Aluminum die-casting and heavy-duty, IP40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Processor           | CPU Level 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 65W (Kaby Lake/SkyLake)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| System              | Chipset Intel® H110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| System Memory       | 2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| System I/O          | 1 x Switch for power On/Off (ATX)<br>1 x Remote switch<br>1 x Reset switch<br>1 x 3-pin terminal block<br>1 x AT/ATX selectable switch<br>2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)<br>2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection<br>4 x USB 3.0<br>1 x HDMI<br>1 x VGA<br>1 x Mic-in<br>1 x Line-out                                                                                                                                                                                     |
| TPM                 | TPM 2.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Vision I/O          | - 4-CH trigger input (response time<1us, sink type, input range: 0 to 30V)<br>- 4-CH trigger output (response time<1us, sink type, open collector, output range: 0 to 30V, 100mA max./CH)<br>- 4-CH LED lighting control (strobe mode: 24V, 1A per CH/trigger mode: 24V, 0.5A per CH)<br>- 2-CH quadrature encoder input (A/B/Z)<br>- 8-CH isolated DI (sink/source type, input range: 0 to 30V)<br>- 8-CH isolated DO(sink type, open collector, supply voltage: 5-30V, 200mA max./CH)<br>- Programmable interrupt functions |
| Camera Interface    | 4 x IEEE802.3at GbE LAN port (PoE, Intel® i210-AT, IEEE802.3at compliant, total max. power output 30W)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Expansion Interface | 1 x Full-size PCI Express Mini Card slot with USB signal<br>1 x Internal USB connector                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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## Specifications

|                       |                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage               | 2 x 2.5" swappable HDD (9.5 mm height)                                                                                                                                               |
| System Indicators     | 1 x Power LED<br>1 x HDD LED<br>4 x PoE power LED                                                                                                                                    |
| Power Input           | Type: ATX/AT<br>Input: 24 VDC (uMin=19V/uMax=30V)                                                                                                                                    |
| Operating Temperature | -10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD*<br>-10°C to +50°C (+14°F to +112°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD* |
| Storage Temperature   | -20°C to +80°C (-4°F to +176°F)                                                                                                                                                      |
| Humidity              | 10% to 90%, non-condensing                                                                                                                                                           |
| Dimensions            | 135 mm (5.31") (W) x 208 mm (8.19") (H) x 230 mm (9.06") (D)                                                                                                                         |
| Weight (net/gross)    | 5 kg (11.02lb)/5.9 kg (13 lb)                                                                                                                                                        |
| Certifications        | CE, FCC                                                                                                                                                                              |
| Software Support      | AMS.AXView                                                                                                                                                                           |

\* CPU support list please refer to the user's manual

## Ordering Information

### System

|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| MVS900-511-FL<br>(P/N: E27L900100) | Fanless vision system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, vision I/O, 4-CH PoE and 4-CH LED output |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

### Optional Accessory

|                                                |                                          |
|------------------------------------------------|------------------------------------------|
| 2.5" SATA HDD/SSD                              |                                          |
| DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB |                                          |
| 8817L900010E                                   | MVS900-511 usb dongle kit                |
| 8817L900020E                                   | MVS900_BK_Din_Kit                        |
| 8817L900030E                                   | MVS900_Wall-Mount_Kit                    |
| 5A244AP1200E                                   | 44-pin DIN-rail terminal board DM44-AP12 |
| 594DM443500E                                   | 44-pin D-SUB cable, L=1m WHDM44/1.0-6954 |
| 594DM443510E                                   | 44-pin D-SUB cable, L=2m WHDM44/2.0-6954 |
| 594DM443520E                                   | 44-pin D-SUB cable, L=3m WHDM44/3.0-6954 |

\* Specifications and certifications may vary based on different requirements.

## Power Protection

### DC Version

OVP (over voltage protection)

SCP (short circuit protection)

OCP (over current protection)

## Packing List

- 1 x MVS900-511-FL
- 1 x Screw pack
- 4 x Foot pad
- 1 x CPU grease
- 1 x Terminal block
- 1 x Remote power switch cable

## Dimensions

