MVP-5000 Series

Value Family 6th Generation Intel® Core™ i7/i5/i3 Processor-Based Integrated Fanless Embedded Computer

Features

- 6th Gen Intel® Core™ i7/i5/i3 processors and H110 chipset
- Dual-channel DDR4 SO-DIMM sockets support up to 32 GB memory
- Support for two independent displays with 1 VGA, 1 DVI, and 2 DisplayPort I/O
- 3 Intel® GbE ports with teaming function
- 2 software-programmable RS-232/422/485 + 2 RS-232 ports
- Front-accessible I/O for simplified installation and maintenance
- Extremely cost-effective, high performance fanless system



Introduction

The MVP-5000 series provides an optimal balance of price and performance in a compact construction. Incorporating 6th Generation Intel® Core™ processors, the MVP-5000 features computing performance boosted by up to 30% over previous generation-processors. Integrating the front-mounted industrial I/O and fanless construction featured in ADLINK's proven Matrix line, and rich LGA 1151 socket type CPU selection, the MVP-5000 Series is ideally suited to a wide variety of machine, factory, logistic automation, and general embedded applications.

Practically any industrial automation application in need of a rugged and compact platform will benefit from the MVP-5000's comprehensive front-mounted I/O coverage, and pre-validated rich LGA 1151 socket-type 6th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® processors offer a host of CPU choices, guaranteeing maximum compatibility and flexibility for the most price sensitive industrial applications.

Rigorous testing for operational verification assures reliability and ruggedness, both critical for complete functionality when facing the rigors of demanding industrial application environments. Along with a versatile I/O array and flexible expansion capacity, the MVP-5000 series fully satisfies all the needs of machine, factory, logistic automation, and general embedded applications.

Software Support

- **Windows 7 Pro/ Windows Embedded Standard 7**
- **Windows 10 IoT Enterprise**
- **Linux® Ubunto 12.04 and Fedora 18***

*** Linux support by request**

Ordering Information

- **MVP-5001**
  Intel® Core™ i7-6700TE fanless embedded computer
- **MVP-5002**
  Intel® Core™ i5-6500TE fanless embedded computer
- **MVP-5003**
  Intel® Core™ i3-6100TE fanless embedded computer

Optional Accessories

- **8/16/32 GB DDR4 SO-DIMM**
  Upgrade to 8/16/32 GB DDR4 memory
- **SSD/ HDD/ CFast**
  Factory-installed and test
- **160W AC-DC Adapter**
  160W Industrial grade AC-DC adapter
- **Wireless Module**
  Wi-Fi/BT, 3G, 4G/LTE mPCIe card w/ Antenna Kit
- **Display Adapter Cable**
  - 30-01119-0010: DisplayPort to HDMI
  - 30-01120-0010: DisplayPort to DVI
  - 30-01121-0010: DisplayPort to VGA

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Specifications

Model Name	MVP-5001	MVP-5002	MVP-5003
System Core			
Processor	Intel® Core™ i7-6700TE	Intel® Core™ i5-6500TE	Intel® Core™ i3-6100TE
Chipset	H110		
Video	1 VGA + 2 DisplayPort + 1 DVI-D		
Memory	4 GB DDR4 2133 MHz (up to 32 GB)		
I/O Interface			
Ethernet	3 Intel® GbE ports 3 Intel® I211AT WOL function on each port Teaming		
Serial Ports	4 COM by DB9 connector 2 software-programmable RS-232/422/485 (COM1 & 2) [BIOS select] 2x RS-232 (COM3 & 4) The RS-485 support auto-flow control 2 kV surge protection on RS-422/485		
USB	6 external USB ports (4 USB 3.0 +2 USB 2.0) Each of the 6 external USB ports supports 1.6A. To ensure 40 mil/A trace design and 5V ± 5% voltage stability 1 internal USB 2.0 port		
DIO	8-CH DI and 8-CH DO		
Mini PCIe	1 internal mini PCIe socket		
USIM	1 USIM socket		
Audio	1 Mic-in and 1 Line out		
Power Supply			
DC Input	Built-in 12-24 V wide-range DC input 3P pluggable connector with latch (GND, V-, V+)		
AC Input	Optional 160 W external AC-DC adapter for AC input		
Storage Device			
SATA HDD	1 SATA port for 2.5" HDD/SSD installation(up to 6 Gb/s)		
CompactFlash Socket	1 Type II CFast		
Mechanical			
Dimensions	220 (W)X 210(D) X 121(H) mm (8.67" x 8.27" x 4.76")		
Weight	3.6 kg (7.9 lb)		
Mounting	Wall mount kit		
Environmental			
Operating Temperature	0°C to 50°C		
Storage Temperature	-40°C to 85°C (-40°F to 185°F) (excl. storage)		
Humidity	~95% @ 40°C (non-condensing)		
Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CFast or SSD) Operating, 0.4 Grms, 5-500 Hz, 3 axes (w/ HDD)		
ESD	Contact +/-4KV, Air +/-8KV		
Shock	Operating, 100 Grms, half sine 11ms duration (w/ CFast or SSD)		
EMC	CE & FCC Class A		
Safety	UL/cUL, CB		

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