MVP-6000 Series

Value Family 6th Generation Intel® Core™ i7/i5/i3 Processor-Based Expandable 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 2 independent displays with 1 VGA, 1 DVI, and 2 DisplayPort I/O
- 1 PCIe Gen3 x16 and 1 PCI expansion slots
- 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

ADLINK's newly introduced MVP-6000 Series value line of fanless embedded computing platforms, incorporating the 6th Generation Intel® Core™ processor, provides 1 PCIe Gen3 x16 slot, 1 PCI slot, 1 mini PCIe slot and single-side access for I/O ports, optimizing easy maintenance in industrial automation environments. The series retains the robust design of all ADLINK MXC/MXE lines, at a new extremely cost-effective price point.

The MVP-6000 series supports dual-channel DDR4 memory for more powerful computing and the Intel® HD Graphics 530 speeds graphics performance. Along with a versatile I/O array and flexible expansion capacity, the MVP-6000 Series fully satisfies all the needs of industrial automation with the performance demanded by vision inspection, motion control, and surveillance applications. Fanless construction not only overcomes contaminant and noise challenges presented by harsh IA environments, the elimination of problematic structural elements that negatively affect MTBF greatly increases life cycle expectations for the platform.

Software Support

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

Ordering Information

- **MVP-6001**
  Intel® Core™ i7-6700TE fanless embedded computer
- **MVP-6002**
  Intel® Core™ i5-6500TE fanless embedded computer
- **MVP-6003**
  Intel® Core™ i3-6100TE fanless embedded computer

Optional Accessories

- **MVP-6000 Optional Fan Module**
  Fan module for MVP-6000 series
- **8/16/32 GB DDR4 Option**
  Upgrade to 8/16/32 GB DDR4 memory
- **500 GB HDD Option**
  Factory-installed 500 GB SATA hard disk drive
- **1 TB HDD Option**
  Factory-installed 1 TB SATA hard disk drive
- **64 GB SSD Option**
  Factory-installed 64 GB MLC SATA solid-state drive
- **160W AC-DC Adapter**
  160W Industrial grade AC-DC adapter

Specifications

Model Name	MVP-6001	MVP-6002	MVP-6003
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			
Expansion slots	1 PCIe Gen3 x16 + 1 PCI		
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	8-CH DI and 8-CH DO 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 VDC 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 170(H) mm (8.67" x 8.27" x 6.69")		
Weight	4.5 kg (9.92 lbs)		
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. HDD/SDD/CFast)		
Humidity	~95% @ 40°C (non-condensing)		
Vibration	Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CFast or SSD) Operating, 0.5 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, CCC		

* Linux distribution by request