MVP-6010/6020 Series

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

Features

New



- 6th Gen Intel® Core™ i7/i5/i3 processors with H110/Q170 chipset
- Dual-channel DDR4 SO-DIMM sockets support up to 32GB memory
- Support for 2 independent displays with 1 VGA, 1 DVI and 2 DisplayPort
- 4 expansion slots
  - MVP-6010: 1 PCIe Gen3 x16 and 3 PCI expansion slots
  - MVP-6020: 2 PCIe Gen3 x8 and 2 PCI expansion slots
- 3 Intel® GbE ports with teaming function
- 2 software-programmable RS-232/422/485 + 2 RS-232 ports
- Built-in 8CH DI & 8CH DO
- Front-accessible I/O for simplified installation and maintenance
- Extremely cost-effective, high performance Fanless system
  - Support up to 65W CPU with fanless operation

Introduction

ADLINK's newly introduced MVP-6010/6020 Series value line of fanless embedded computing platforms, incorporating the 6th Generation Intel® Core™ processor, provides one PCIex16 and three PCI or two PCIe x8 and two PCI expansion slots, 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-6010/6020 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-6010/6020 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.

Optional Accessories

- **Optional Fan Module**
  Fan module for MVP-6010/6020 series
- **8/16/32 GB DDR4 Option**
  Upgrade to 8/16/32 GB DDR4 memory
- **500 GB / 1TB HDD Option**
  Factory-installed 500 GB / 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

Software Support

- **Windows® 10 / 7 / Embedded Standard 7**
- **Linux**

Ordering Information

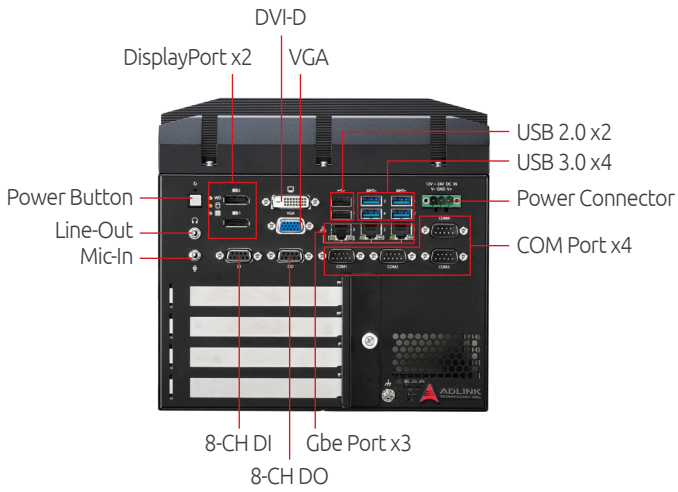
- **MVP-6011**
  Intel® Core™ i7-6700TE fanless embedded computer
  1 PCIe Gen3 x16 + 3 PCI expansion slots
- **MVP-6012**
  Intel® Core™ i5-6500TE fanless embedded computer
  1 PCIe Gen3 x16 + 3 PCI expansion slots
- **MVP-6013**
  Intel® Core™ i3-6100TE fanless embedded computer
  1 PCIe Gen3 x16 + 3 PCI expansion slots
- **MVP-6015**
  Intel® Core™ i7-6700 fanless embedded computer
  1 PCIe Gen3 x16 + 3 PCI expansion slots
- **MVP-6021**
  Intel® Core™ i7-6700TE fanless embedded computer
  2 PCIe Gen3 x8 + 2 PCI expansion slots
- **MVP-6022**
  Intel® Core™ i5-6500TE fanless embedded computer
  2 PCIe Gen3 x8 + 2 PCI expansion slots
- **MVP-6023**
  Intel® Core™ i3-6100TE fanless embedded computer
  2 PCIe Gen3 x8 + 2 PCI expansion slots
- **MVP-6025**
  Intel® Core™ i7-6700 fanless embedded computer
  2 PCIe Gen3 x8 + 2 PCI expansion slots

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Specifications

	Expandable Fanless Embedded Computers			Integrated Fanless Embedded Computers
Model Name	**MVP-6010/6020 Series**		**MVP-6000 Series**	**MVP-5000 Series**
				
System				
Processor	Intel® Core™ i7-6700TE/i5-6500TE/ i3-6100TE	Intel® Core™ i7-6700 (65W)	Intel® Core™ i7-6700TE/i5-6500TE/i3-6100TE	
Chipset	MVP-6010 Series: H110 MVP-6020 Series: Q170		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 + 3 PCI expansion slots for MVP-6010 Series 2 PCIe Gen3 x8 + 2 PCI expansion slots for MVP-6020 Series		1 PCIe Gen3 x16 + 1 PCI	-
Ethernet	3 Intel® I211 AT GbE ports WOL and teaming functions are supported			
Serial Ports	4 COM by DB9 connector 2 BIOS selectable RS-232/422/485 + 2x RS-232 RS-485 with auto flow control			
USB	6 external USB ports (4 USB 3.0 +2 USB 2.0) 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 VDC wide-range DC input 3P pluggable connector with latch (V-, GND, 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 208.7 (H)mm (8.67" x 8.27" x 8.21")		220 (W) x 210 (D) x 170 (H) mm (8.67" x 8.27" x 6.69")	220 (W) x 210 (D) x 121(H) mm (8.67" x 8.27" x 4.76")
Weight	4.7 kg (10.36 lbs)		4.5 kg (9.92 lbs)	3.6 kg (7.9 lb)
Mounting	Wall mount kit			
Environmental				
Operating Temperature	0 to 50°C	0 to 40°C	0 to 50°C	
Storage Temperature	-40 to 85°C (-40 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			

Product Illustration

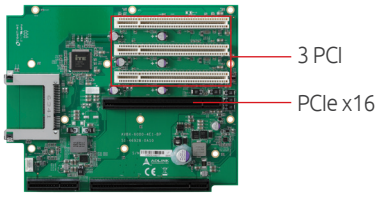


MVP-6010/6020 Series

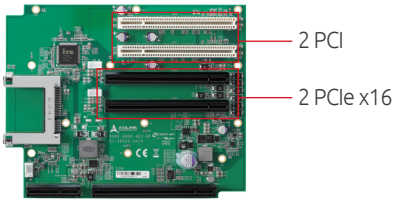
Versatile Expansion

The MVP-6010/6020 Series offer various of expansion slot options for flexible function enhancement and easier system integration.

MVP-6010 Series (4 Slots)



MVP-6020 Series (4 Slots)



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