

MVP-6100 Series

Fanless Embedded PC with Intel® Xeon®/ Celeron® or Core™ i7/i5/i3 9th Gen. CPU

Features

- Intel® Xeon®/ Celeron®/ Core™ CPUs
- Up to 32 GB DDR4 2,400 SDRAM
- Intel® H310 or Intel® C246 chipset
- 2x DisplayPorts, 1x DVI, 1x VGA, 3x GbE, 4x COM and more
- Operating temp.: -20° ~ 60°C



MVP-6100- Serie – High processing power and rugged design

The fanless embedded computing platforms of the MVP-6100 series, which include the 9th generation Intel® Core™ processor, are optimized for applications in industrial automation and machine control. The MVP-6100 series combines high-performance computing, scalable functional and I/O improvements as well as industrial-grade reliability on a compact fanless platform and offers reliable long-term operation for performance-critical applications in industrial automation, logistics, transportation and smart city environments. The Embedded PC series consists of a classically robust design. The Embedded PCs support DDR4 memory via dual SODIMM slots, both non-ECC and ECC.

High performance for industrial requirements

The embedded systems combine outstanding performance with extensive connectivity and are easy to use. The robust housing allows the use under difficult conditions. With the use of an Intel® Core™ i3, i5 or i7 processor of the ninth generation, the embedded computer focuses on high performance with minimal power consumption. Alternatively, Xeon® or Celeron® CPUs can also be installed. Together with unique image and video processing and efficient remote monitoring, the MVP-6100 series meets the requirements for use in critical applications with the highest demands on reliability. Proven applications in industrial environments include machine vision, motion sensors and system monitoring.

Flexible connection options and high resistance

The MVP-6100 series offers in each version two independently working DisplayPorts, including VGA and DVI connection and is therefore also ideally suited for digital signage scenarios. Up to 32GB DDR4 RAM and optionally two SATA III HDD or SSD hard disk can be installed. Temperature fluctuations from 0 to +50 °C as well as shocks and vibrations are no problem for the industrial computers. The series can be operated with power supplies in a voltage range of 12-24V and thus offers flexibility for different application scenarios. Three USB 3.1 ports as well as three USB 2.0 ports on the front panel and four COM ports also offer plenty of connection options for additional devices.

Ordering Information	MVP-610X	MVP-610A	MVP-610I	MVP-6102	MVP-6103	MVP-6104
CPU	Intel® Xeon®E-2278GE	Intel® Core™ i7-9700E	Intel® Core™ i7-9700TE	Intel® Core™ i5-9500TE	Intel® Core™ i3-9100TE	Intel® Core™ i3-9100TE
Number of cores	8	8	8	6	4	2
Chipset	MVP-6120 Series: Intel® H310 MVP-6140 Series: Intel® C246					
Dimensions	MVP-6120 models: 165 x 240 x 210 mm (W x D x H) MVP-6140 models: 206 x 240 x 210 mm (W x D x H)					

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Specifications	MVP-6100 Series
SYSTEM	
CPU	Intel® Xeon® E-2278GE Intel® Core™ i7-9700E Intel® Core™ i7-9700TE Intel® Core™ i5-9500TE Intel® Core™ i3-9100TE Intel® Celeron® G4900T
Chipset	MVP-6120 Series: Intel® H310 MVP-6140 Series: Intel® C246
RAM	4GB DDR4 non-ECC 2.400 MHz, dual SODIMMs, up to 32GB (optional: 4/8/16/32GB ECC, only for Intel® Xeon®/Core™ i3/Celeron with C246)
Storage	2x internal SATA III for HDD/SSD (Intel®C246 chipset supports RAID 0/1/5/10); optional 2x additional 2.5" SATA III (internal) 1x CFast socket (type II)
AMT	Supports Intel® AMT / vPro™ with C246
TPM	TPM 2.0
Expansions	1x Full size mini PCIe (USB 2.0, PCIe) Up to 2x PCIe x16 and 2x PCI x4 and 1x PCI slot
Operating System	Win10 IoT Enterprise CBB 64-bit Linux Ubuntu 18.04
INTERFACE	
Ethernet	3x Intel® GbE: 2x i211AT + i219
USB	3x USB 3.1 Gen1 ports (2x USB 3.1 up to Gen2 with C246) 3x USB 2.0 ports 1x USB 2.0 port (internal)
COM	COM1/2: 2x RS-232/422/485 COM3/4: 2x RS-232 (Optional COM5/6: RS-232, shared with DI/O)
Digital I/O	8-CH DI and 8-CH DO
Video	1x VGA 2x DisplayPort 1x DVI-D
Audio	1x Mic-in and Line-out (optional: speaker-out)
Other	2x USIM
ENVIRONMENTAL	
Cooling	Fanless
Power Supply	DC input: 12-24V (± 10% tolerance) AC input: 220W/280W AC/DC adapter (optional)
Operating Temperature	Standard: 0° ~ 40°C (MVP-610X) 0° ~ 50°C (MVP-610A/ MVP-610I/ MVP-6102/ MVP-6103/MVP-6104) Extended: -20° ~ 40°C (MVP-610X) -20° ~ 50°C (MVP-610A) -20° ~ 60°C (MVP-610I/ MVP-6102/ MVP-6103/ MVP-6104)
Storage Temperature	-40° ~ 85°C (excl. storage)
Vibration / Shock Resistance	Vibration: Operating – 5 Grms, random, 5-500 Hz, 3 axes (w/ SSD/CFast) Operating – 0.5 Grms, random, 5-500 Hz, 3 axes (w/ HDD) Shock: Operating – 50G, half sine 11ms duration (w/ 2.5" SSD/CFast)
Humidity	~ 95% @ 40°C, non-condensing
Dimensions	MVP-6120 Series: 165 (W) x 240 (D) x 210 (H) mm MVP-6140 Series: 206 (W) x 240 (D) x 210 (H) mm
Weight	MVP-6120: 4.8 kg MVP-6140: 5.1 kg
Mounting	Wallmount
Certifications	Safety: UL/cUL, CB, CCC EMC: EN61000-6-4/-2, CE & FCC Class A ESD: Contact +/-4KV, Air +/-8KV