MVP-5100-MXM Series

Value Family 9th Gen Intel® Core™ i7/i5/i3® Processor-Based Embedded GPU/AI Platforms

Features

- 9th Gen Intel® Core™ i7/i5/i3 LGA processor
- Dual SODIMMs sockets for up to 32GB DDR4
- Abundant I/O:
  - Up to 4x additional DP 1.4 from MXM
  - 2x DP++, DVI, VGA, 3x GbE, 3x COM, TPM2.0
  - 3x USB 3.1 Gen 1, 3x USB 2.0
- Rich storage options: 2x 2.5" SATA, M.2 2280
- Front accessible I/O and adaptive Function Module 2.0 options
- Embedded slots for Mini PCIe, M.2 3042, 2x USIM
- World leading embedded GP/GPU computing options built-in



NVIDIA QUADRO CERTIFIED
EMBEDDED

Software Support

- **Windows 10 IoT Enterprise CBB/LTSB 64-bit**
- **Linux Ubuntu18.04 LTS**

Optional Accessories

- **Factory Installed 2.5" SSD/HDD/M.2 Storage**
- **Wireless Mini PCIe/M.2 Module**
  Wi-Fi/ BT/ 3G/ 4G LTE/ LoRa wireless kit (w/ antenna)
- **AC/DC Adapter**
  220W (P/N: 31-62149-0000)
  280W (P/N: 31-62162-1010-A0)

Ordering Information

Model	CPU	Memory
MVP-510A-MXM/M4G/[GPU]	Intel® Core™ i7-9700E	4GB non-ECC DDR4
MVP-5101-MXM/M4G/[GPU]	Intel® Core™ i7-9700TE	4GB non-ECC DDR4
MVP-5102-MXM/M4G/[GPU]	Intel® Core™ i5-9500TE	4GB non-ECC DDR4
MVP-5103-MXM/M4G/[GPU]	Intel® Core™ i3-9100TE	4GB non-ECC DDR4

GPU Options

Model	GPU	Power	CUDA® Cores	Graphics Memory
EGX-MXM-P1000	NVIDIA® Quadro® Embedded P1000	47W	512	GDDR5 4GB
EGX-MXM-P2000	NVIDIA® Quadro® Embedded P2000	58W	768	GDDR5 4GB

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Specifications

Model Name	MVP-510A-MXM	MVP-5101-MXM	MVP-5102-MXM	MVP-5103-MXM
System Core				
Processor	Intel® Core™ i7-9700E	Intel® Core™ i7-9700TE	Intel® Core™ i5-9500TE	Intel® Core™ i3-9100TE
TDP	65 W	35 W	35 W	35 W
# of Cores	8	8	6	4
Base Frequency	2.6 GHz	1.8 GHz	2.2 GHz	2.2 GHz
Max Turbo Frequency	4.4 GHz	3.8 GHz	3.6 GHz	3.2 GHz
Chipset	Intel® H310 (Optional: C246)			
Memory	4GB DDR4 non-ECC 2400 MHz, dual SODIMMs, up to 32GB (Optional: 8/16/32GB ECC, only for Intel Core i3 w/ C246)			
I/O Interface				
Graphics	Dual independent displays: 2x DP++ 1.2/ 1x DVI-D/VGA (3 independent ones w/ C246) Extra 4x DP 1.4 powered by MXM P1000/P2000			
Ethernet	3x Intel® GbE: i219 + 2x i225 (support Intel AMT/vPro w/ C246)			
Serial Ports	COM1/2: RS-232/422/485, COM3: RS-232			
USB	3x USB 3.1 Gen 1, 3x USB 2.0, 1x internal USB2.0 dongle (2x USB 3.1 up to Gen 2 w/ C246)			
M.2	1x socket 2, key B+M or B, 2280/3042 (USB3.1 + SATA III + PCIex1. Up to PCIex2 w/ C246)			
Mini PCIe	1x Full size (USB 2.0, PCIe)			
USIM	2			
I^2C	2 (3.3V/5V)			
TPM	TPM 2.0			
Storage Device				
2.5" SATA	2x internal (support RAID 0/1 w/ C246)			
Mechanical				
Dimensions	125 (W) x 240 (D) x 210 (H) mm (4.92" x 9.45" x 8.27")			
Cooling	Fanless passive cooling			
Weight	6.5 kg (14.4 lbs)			
Mounting	Wall mount			
Power Supply				
DC Input	12 to 24V			
AC Input	Optional 220W or 280W AC/DC adapter			
Environmental				
Operating* Temperature	Standard: w/ air flow 0.6 m/s			
	0°C to 45°C	0°C to 50°C		
	Extended: w/ air flow 0.6 m/s & Ind. storage			
	-20°C to 45°C	-20°C to 60°C		
Storage Temperature	-40°C to 85°C (-40°F to 185°F) (excl. storage)			
Humidity	~95% @ 40°C (non-condensing)			
Vibration	Operating: 3 Grms, random, 5-500 Hz, 3 axes (w/ 2.5" SSD/CFast))			
Shock	Operating: 50 G, half sine 11ms duration (w/ 2.5" SSD)			
ESD	Contact 4kV, Air 8kV			
EMC	EN61000-6-4/-2, CE, FCC Class A			
Safety	UL/cUL, CB			

*: MXM module's performance depends on ambient temperature, software and devices

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