

MVP-5100 Series (Preliminary)

Value Family 9th Generation Intel® Core™ i7/i5/i3/Celeron® Processor-Based Embedded Fanless Computer

Features

- 9th Gen Intel® Core™ i7/i5/i3/Celeron® PGA processor
- Dual SODIMMs for up to 32GB DDR4 non-ECC/ ECC memory
- Rich I/O: 2x DP++/ DVI/ VGA/ 3x GbE/ 4x COM/ 8-ch DI/ 8-ch DO/ TPM2.0
- 2x USB3.1 Gen2 + 1x USB3.1 Gen1 + 3x USB2.0 (with C246)
- Rich storage: 2x 2.5" SATA, CFAST, M.2 2280
- Embedded Expansion: Mini PCIe/ M.2 3042/ 2x USIM
- Front accessible I/O and adaptive Function Module v.2 option



Software Support

- Win10 IoT Enterprise CBB 64bit
- Linux 18.04

Optional Accessories

- 2.5" SATA SSD/HDD/M.2/CFast Storage
- Wireless Module
Wi-Fi/ BT/ 3G/ 4G LTE/ LoRa wireless kit (w/ antenna)
- 160W AC/DC Adapter (P/N: 31-62120-0010)

Ordering Information

Model	CPU	PCH	RAM
MVP-510A/M4G	Intel® Core™ i7 65W	H310	4GB
MVP-5101/M4G	Intel® Core™ i7 35W	H310	4GB
MVP-5102/M4G	Intel® Core™ i5	H310	4GB
MVP-5103/M4G	Intel® Core™ i3	H310	4GB
MVP-5104/M4G	Intel® Celeron®	H310	4GB

Specifications

Model Name	MVP-510A	MVP-5101	MVP-5102	MVP-5103	MVP-5104
System Core					
Processor	Intel® Core™ i7 65W	Intel® Core™ i7 35W	Intel® Core™ i5 35W	Intel® Core™ i3 35W	Intel® Celeron® 35W
Chipset	H310 (Optional: C246)				
Memory	4GB DDR4 2400MHz, dual SODIMMs, up to 32GB Optional: 8/16/32GB DDR4 ECC 2400MHz (only for Intel® Core™ i3 & Celeron® w/ C246)				
I/O Interface					
Display	2x DP++, DVI-D, VGA (dual displays w/ H310, 3 displays w/ C246)				
Ethernet	3x Intel® GbE: 2x i211AT + i219 iAMT support (With C246)				
Serial Ports	COM1/2: RS-232/422/485, COM3/4: RS-232 Optional: COM5/6 RS-232 (shared w/ DI/O)				
DI/O	8-CH DI and 8-CH DO				
USB	3x USB3.1 Gen 1 + 3x USB2.0, 1x internal USB2.0 dongle (3x USB3.1 Gen 2 + 3x USB2.0, 1x internal USB2.0 dongle with C246)				
Audio	Line-out, Mic-in (Optional: speaker-out)				
Mini PCIe	1x Full size (USB2.0 + PCIe)				
M.2	1x 2280/3042: USB3.1, SATA III and PCIe x1 (Up to PCIe x2 with C246)				
USIM	2				
I ² C	2 (3.3V/5V)				
TPM2.0	Yes				
Storage Device					
2.5" SATA	2x internal (support RAID w/ C246)				
CFast	1 Type II				
Mechanical					
Dimensions	210 (W) x 240 (D) x 86 (H) mm (8.27" x 9.45" x 3.39")				
Weight	4.45 kg (9.1 lbs)				
Mounting	Wall mount				
Power Supply					
DC Input	12-24V				
AC Input	Optional: 160W AC/DC adapter				
Environmental					
Operating Temperature	Standard: 0°C to 50°C, w/ air flow				
	Extended Temperature (w/ Ind. storage), w/ air flow				
	-10°C to 50°C				-10°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: 5 Grms, 5-500 Hz, 3 axes (w/ SSD/CFast) Operating: 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD)				
Shock	Operating: 100 Grms, half sine 11ms duration (w/ SSD/CFast)				
ESD	Contact +/-4KV, Air +/-8KV				
EMC	EN61000-6-4/-2, CE & FCC Class A				
Safety	UL/cUL, CB, CCC				