

# MVP-5200 Series

Compact Modular Industrial Computers Based on 14/13/12 Gen Intel® Core™ Processors

## Features

- 14/13/12 Gen Intel® Core™ i Processors (LGA 1700)
- Operating System Options: Microsoft® Windows® or Linux® Ubuntu
- Scalable with ADLINK AFM (Adaptive Function Module) slot, offering custom I/O arrangement and fast application-specific access
- Rugged, fanless design for 24/7 operation
- Wide-temp operation from -20°C to 60°C
- Front accessible I/O ports, wall mounting supported



## Ordering Information

PN	Model Name	CPU	Memory
93-41052-2100	MVP-5209/M64G	i9-12900E	DDR5 64GB
93-41052-4400	MVP-5207/M64G	i7-12700E	DDR5 64GB
93-41052-4000	MVP-5207/M32G	i7-12700E	DDR5 32GB
93-41052-5100	MVP-5207T/M16G	i7-12700TE	DDR5 16GB
93-41052-7200	MVP-5205/M16G	i5-12500E	DDR5 16GB

## Packing Lists

PN	Description	QTY
20-C2K0C-0000	Power connector (male)	1
34-33980-2000-A0	Wall mount BKT	1

## Optional Accessories

PN	Description
31-62162-1010-A0	AC/DC Adapter, 280W

## Embedded OS

PN	Description
92-56094-0010	Win10 IoT Ent LTSC 2021 High End
92-56094-2010	Win10 IoT Ent LTSC 2021 Value
92-56094-4010	Win10 IoT Ent LTSC 2021 Entry

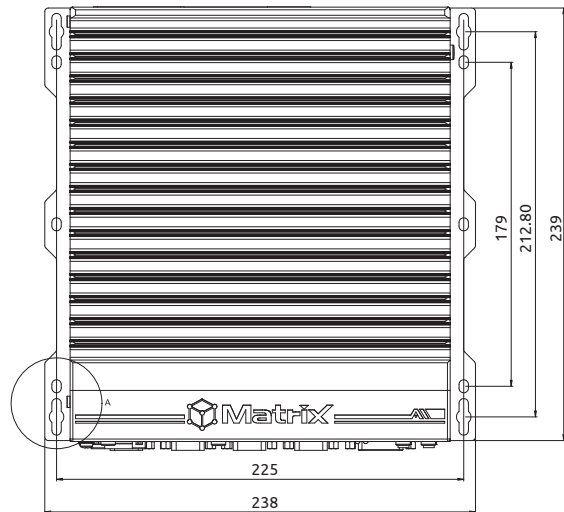
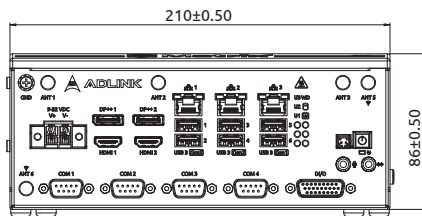
## Specifications

Model	MVP-5200
<b>System</b>	
CPU	12th Gen Intel® Core™ processors 65W: i9-12900E (8+8c), i7-12700E (8+4c), i5-12500E (6+0c), i3-12100E(4+0c) 35W: i9-12900TE (8+8c), i7-12700TE (8+4c), i5-12500TE (6+0c), i3-12100TE(4+0c)
RAM	DDR5 3600 MHz (up to 128GB), 4 x SODIMM (Optional: 16/32/64/128GB ECC, only for Intel® Core™ i9-12900E/i7-12700E/i5-12500E)
Storage	2x SATA IIIx (6Gb/s) for 2.5-inch SSD
OS	Windows 10 IoT Enterprise 64-bit, Windows 11 IoT Enterprise 64-bit or Ubuntu 22.04
TPM	TPM 2.0 support
<b>I/O Interfaces</b>	
Control Button	1 power button and 1 reset button
HDMI	2x HDMI 1.4b
DisplayPort	2x DisplayPort 1.4
USB	6x USB 3.2 Gen2 (Type A) 1x USB 2.0 internal dongle
Ethernet (LAN A/B/C)	3x 2.5GBE with TSN supported (i225)
COM	COM1/2: RS-232/422/485 COM3/4: RS-232
Digital	8 DI and 8 DO
Audio	(Speaker-out) Line-out, MIC-IN
SMA Antenna Connector	6
LED Indicator	1 storage, 1 WDT, 1 diagnostic and 3 user-dfined
<b>Extension Slots</b>	
M.2	1x A+E Key 2230, 1x B Key 3052/3042, and 1x M Key 2280
<b>Power Supply</b>	
DC Input	9 to 32V, 280W adapter (optional)
<b>Mechanical</b>	
Dimensions (W x D x H)	210mm x 240mm x 86mm (8.27" x 9.45" x 3.39")
Weight	4.9 kg (10.73 lbs)
Mounting	Wall mount
<b>Environmental</b>	
Operating Temperature	-20°C to 60°C (35W CPU) -20°C to 50°C (65W CPU)
Operating Humidity	~95% @ 40°C (non-condensing)
Storage Temperature	-40°C to 85°C
Operating Vibration	Operating: 5Grms, random, 5-500Hz, 3 axes (w/SSD)
Operating Shock	Operating: 50G, half sine 11ms duration (w/SSD)
ESD	Contact +/-4KV, Air +/-8KV
Regulatory	EN61000-6-4/-2, CE & FCC Class A, UL/cUL, CB, CCC, BIS, MIL-STD-810G

## I/O View



## Product Dimensions and Illustration



## CPU Support List

Family	Number	CPU Core	Frequency	Cache	Processor Base Power	Since BIOS
Alder Lake	i9-12900E	16	5.0 GHz	30 MB	65 W	1.03.10
Alder Lake	i9-12900TE	16	4.8 GHz	30 MB	35 W	1.03.10
Alder Lake	i7-12700E	12	4.8 GHz	25 MB	65 W	1.03.10
Alder Lake	i7-12700TE	12	4.7 GHz	25 MB	35 W	1.03.10
Alder Lake	i5-12500E	6	4.5 GHz	18 MB	65 W	1.03.10
Alder Lake	i5-12500TE	6	4.3 GHz	18 MB	35 W	1.03.10
Alder Lake	i3-12100E	4	4.2 GHz	12 MB	65 W	1.03.10
Alder Lake	i3-12100TE	4	4.0 GHz	12 MB	35 W	1.03.10
Raptor Lake	i9-13900E	24	5.2 GHz	36 MB	65 W	2.08.10
Raptor Lake	i9-13900TE	24	5.0 GHz	36 MB	35 W	2.08.10
Raptor Lake	i7-13700E	16	5.1 GHz	30 MB	65 W	2.08.10
Raptor Lake	i7-13700TE	16	4.8 GHz	30 MB	35 W	2.08.10
Raptor Lake	i5-13500E	14	4.6 GHz	24 MB	65 W	2.08.10
Raptor Lake	i5-13500TE	14	4.5 GHz	24 MB	35 W	2.08.10
Raptor Lake	i3-13100E	4	4.4 GHz	12 MB	65 W	2.08.10
Raptor Lake	i3-13100TE	4	4.1 GHz	12 MB	35 W	2.08.10
Raptor Lake Refresh	i9-14900	24	5.8 GHz	36 MB	65 W	2.08.10