MVP-3100 Series

Versatile & High-Performance Fanless Embedded Computer with Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors

Features

- Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors
- Microsoft® Windows® or Linux® Ubuntu operating system option
- Rugged, fanless design for 24/7 operation
- Wide-temp operation from -20°C to 60°C
- Scalable with ADLINK AFM (Adaptive Function Module) slot, offering custom I/O arrangement and fast application-specific access
- Flexible modular expansion support
- Front accessible I/O ports, wall mounting supported



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
92-56101-0010	Win11 IoT Ent LTSC High End
92-56101-2010	Win11 IoT Ent LTSC Value

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Specifications



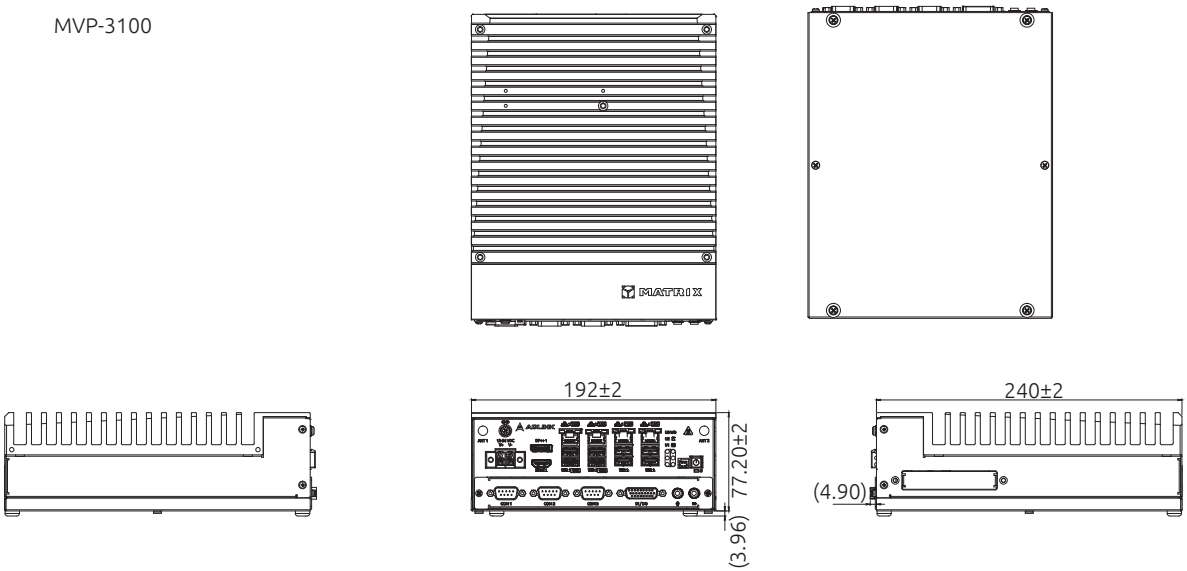


Model	MVP-3100	MVP-3120
System		
CPU	Intel® Core™ 200S Series and 14/13/12th Gen Core™ Processors	
Chipset	Intel® H610E	
Memory	DDR5 4800MHz up to 64GB, 2x SO-DIMM	
Storage	2x SATA for 2.5” drive	4x SATA for 2.5” drive (optional)
OS	Windows® 10 IoT, Windows® 11 IoT, Ubuntu 22.04	
TPM	TPM 2.0 support	
I/O Interfaces		
Display	1x HDMI 1.4b 1x DP++ 1.4	
USB	4x USB 3.2 Gen1 Type A 4x USB 2.0 Type A	
Ethernet	1x 2.5GBE (i226) 2x 1.0GBE (i210) 1x 1.0GBE (i219)	
COM	COM1/2: RS-232/422/485 COM3: RS-232	
Digital	8 DI + 8 DO	
Audio	Line-out, Mic-in	
SMA Antenna Connector	2	
M.2	1x A+E Key 2230 1x M Key 2280	
LED Indicator	1x storage, 1x WDT, 1x diagnostic and 3x user-dfined	
Extension Slots	-	1x PCIe Gen4 x16 1x PCI
Power Supply		
DC Input	12 to 24V, 280W adapter (optional)	
Mechanical		
Dimensions	192mm x 240mm x 77.2mm	192mm x 240mm x 156.2mm
Weight	3.68 kg	4.52 kg
Mounting	Wall mount	
Environmental		
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: 3Grms, random, 5-500Hz, 3 axes (with SSD)	
Operating Shock	Operating: 50G, half sine 11ms duration (with SSD)	
ESD	Contact 4kV, Air 8kV	
Regulatory	EN61000-6-4/-2, CE & FCC Class B, CB, UL/cUL	

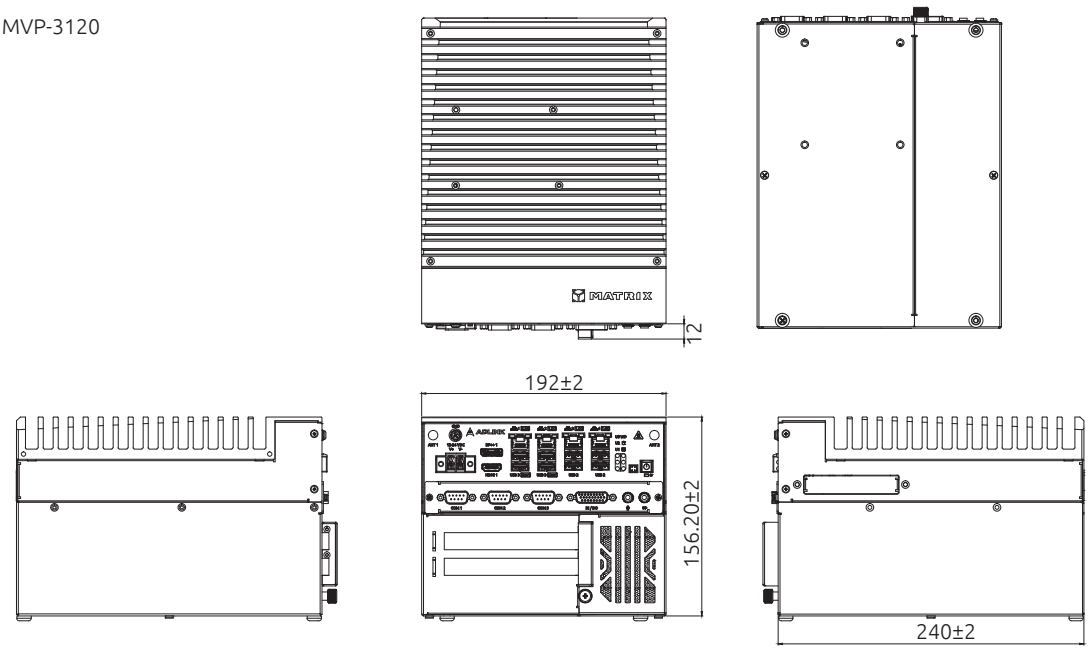
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Product Dimensions and Illustration

MVP-3100



MVP-3120



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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	1.00.10
Alder Lake	i9-12900TE	16	4.8 GHz	30 MB	35 W	1.00.10
Alder Lake	i7-12700E	12	4.8 GHz	25 MB	65 W	1.00.10
Alder Lake	i7-12700TE	12	4.7 GHz	25 MB	35 W	1.00.10
Alder Lake	i5-12500E	6	4.5 GHz	18 MB	65 W	1.00.10
Alder Lake	i5-12500TE	6	4.3 GHz	18 MB	35 W	1.00.10
Alder Lake	i3-12100E	4	4.2 GHz	12 MB	65 W	1.00.10
Alder Lake	i3-12100TE	4	4.0 GHz	12 MB	35 W	1.00.10
Raptor Lake	i9-13900E	24	5.2 GHz	36 MB	65 W	1.00.10
Raptor Lake	i9-13900TE	24	5.0 GHz	36 MB	35 W	1.00.10
Raptor Lake	i7-13700E	16	5.1 GHz	30 MB	65 W	1.00.10
Raptor Lake	i7-13700TE	16	4.8 GHz	30 MB	35 W	1.00.10
Raptor Lake	i5-13500E	14	4.6 GHz	24 MB	65 W	1.00.10
Raptor Lake	i5-13500TE	14	4.5 GHz	24 MB	35 W	1.00.10
Raptor Lake	i3-13100E	4	4.4 GHz	12 MB	65 W	1.00.10
Raptor Lake	i3-13100TE	4	4.1 GHz	12 MB	35 W	1.00.10
Raptor Lake Refresh	i9-14900	24	5.8 GHz	36 MB	65 W	1.00.10

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