

MVP-3100 Series

Versatile & High-Performance Fanless Embedded Computer with 14/13/12th Gen Intel® Core™ i3/ i5/ i7/ i9 Family Processor

Features

- 14/13/12th Gen Intel® Core™ i9/ i7/ i5/ i3, up to 65W (LGA 1700)
- 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

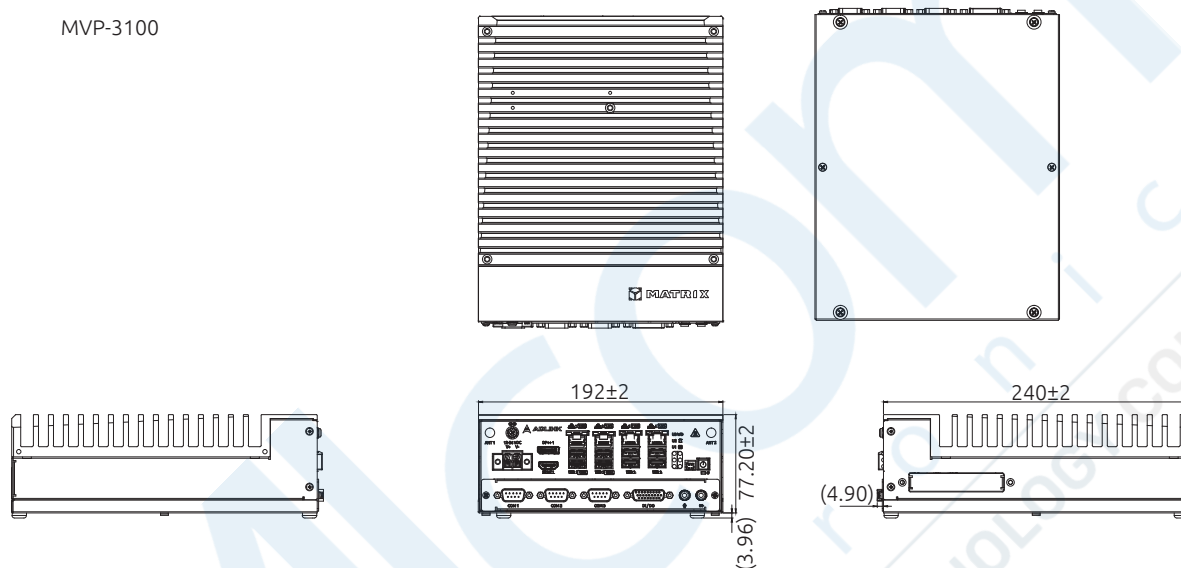
Specifications



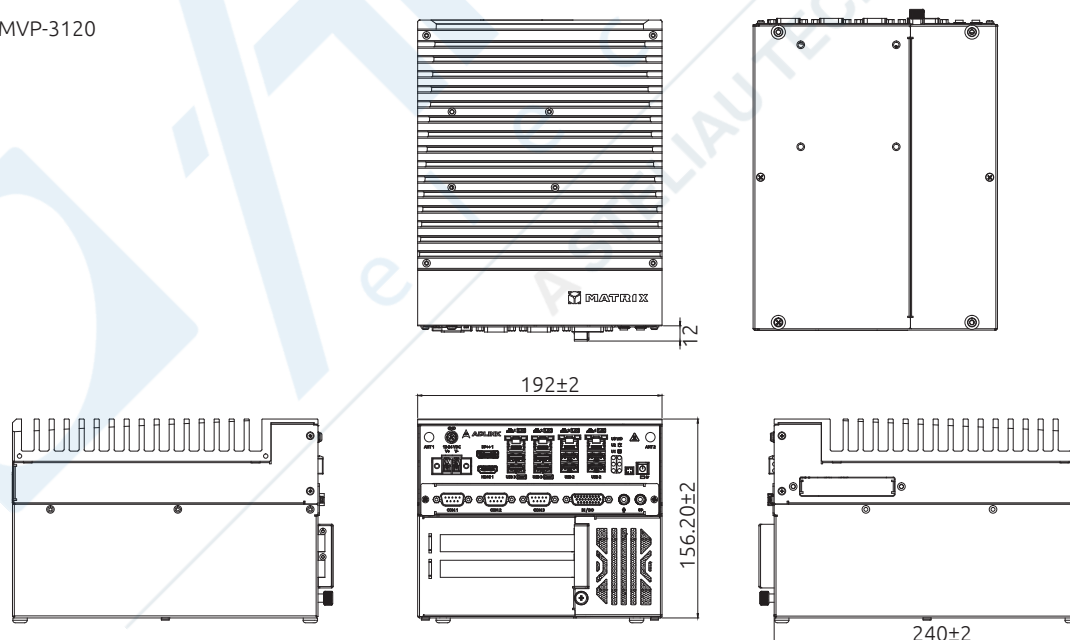
Model	MVP-3100		MVP-3120
System			
CPU	14/13/12th Gen. Intel® Core™ i9/ i7/ i5/ i3 Processors, up to 65W		
Chipset	Intel® H610E		
Memory	DDR5 4800MHz up to 64GB, 2x SO-DIMM		
Storage	2x SATA for 2.5" drive	4x SATA for 2.5" drive (optional)	
OS	Windows® 10 IoT, Windows® 11 IoT, Ubuntu 22.04		
TPM	TPM 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		

Product Dimensions and Illustration

MVP-3100



MVP-3120



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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