MVP-3100 Series

Versatile & High-Performance Fanless Embedded Computer with Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® Core™ Processors

Features

- Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® 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



Ordering Information

PN	Description
93-41059-0000	MVP-3109R/M64G
93-41059-0500	MVP-3107/M32G
93-41059-1000	MVP-3129R/M64G

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

Optional Accessories

PN	Description
31-62162-1010-A0	AC/DC Adapter, 280W
31-621A0-0010-A0	AC/DC Adapter, 230W

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Specifications



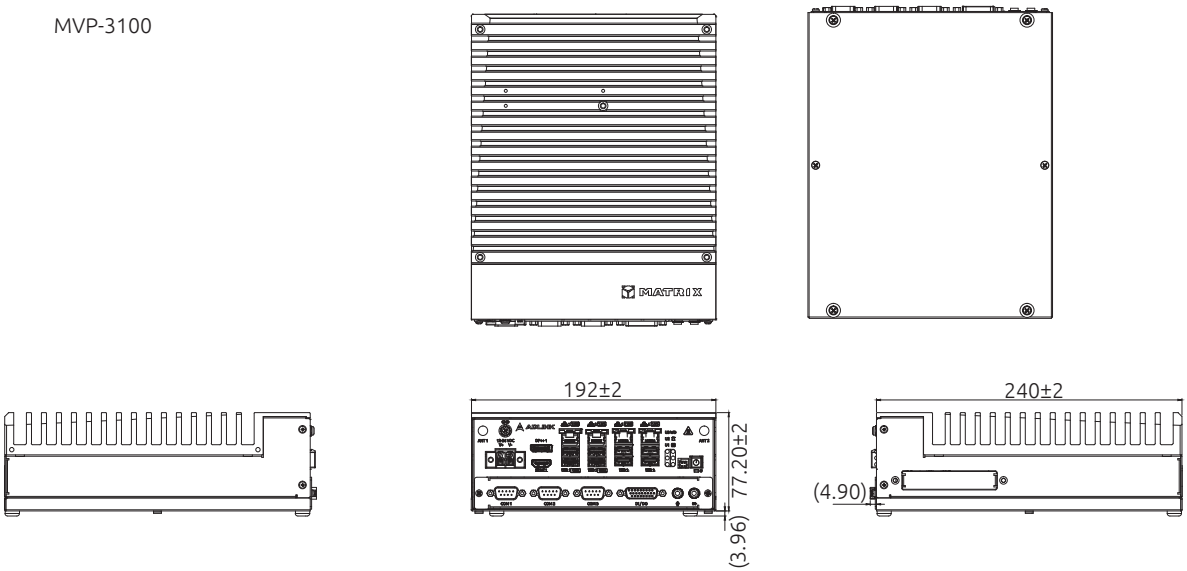


Model	MVP-3100	MVP-3120
System		
CPU	Intel® Core™ Series 2 Processors and 14/13/12th Gen Intel® Core™ Processors	
Chipset	Intel® H610E	
Memory	DDR5 4800MHz up to 64GB, 2x SO-DIMM	
Storage	2x SATA for 2.5” drive	4x SATA for 2.5” drive (optional)
OS	Windows 10 IoT Enterprise LTSC, Windows 11 IoT Enterprise LTSC, 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), MIL-STD-810H	
Operating Shock	Operating: 50G, half sine 11ms duration (with SSD), MIL-STD-810H	
ESD	Contact 4kV, Air 8kV	
Regulatory	EN61000-6-4/-2, CE & FCC Class B, CB, UL/cUL, RCM	

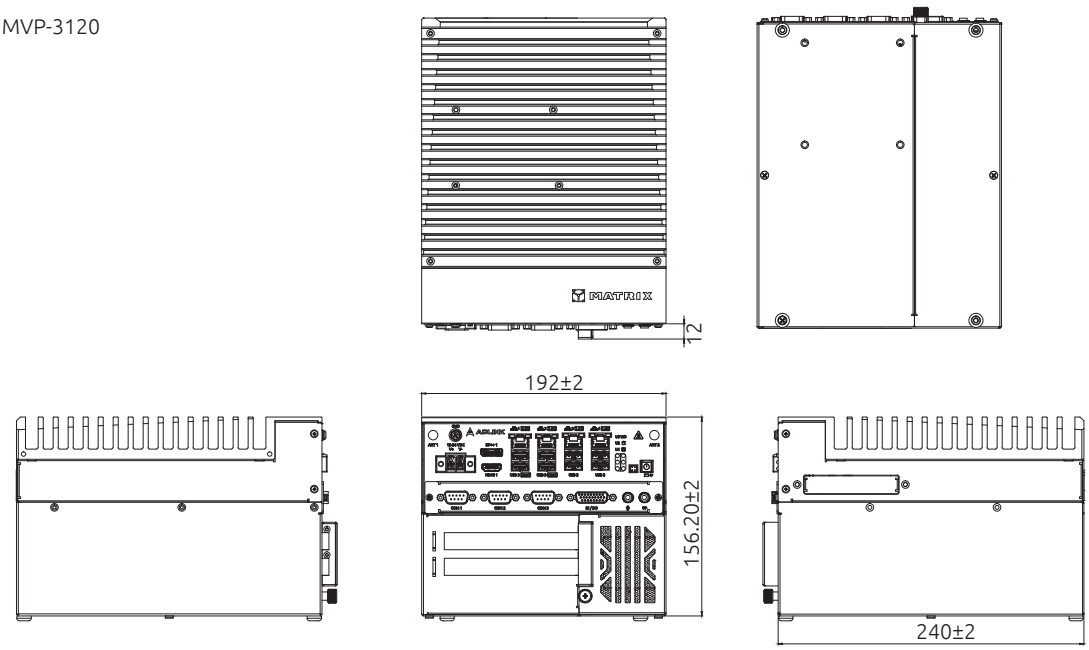
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Product Dimensions and Illustration

MVP-3100



MVP-3120



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CPU Support List

Family	Number	CPU Core (P+E)	Cache (L3)	Processor Base Power	Since BIOS
Bartlett Lake	273PE	12 (12P + 0E)	36 MB	65 W	1.04.10
Bartlett Lake	273PTE	12 (12P + 0E)	36 MB	45 W	1.04.10
Bartlett Lake	251TE	24 (8P + 16E)	36 MB	45 W	1.04.10
Bartlett Lake	253PE	10 (10P + 0E)	33 MB	65 W	1.04.10
Bartlett Lake	253PTE	10 (10P + 0E)	33 MB	45 W	1.04.10
Bartlett Lake	251E	24 (8P + 16E)	36 MB	65 W	1.04.10
Bartlett Lake	221E	14 (6P + 8E)	24 MB	65 W	1.04.10
Bartlett Lake	221TE	14 (6P + 8E)	24 MB	45 W	1.04.10
Bartlett Lake	223PE	8 (8P + 0E)	24 MB	65 W	1.04.10
Bartlett Lake	223PTE	8 (8P + 0E)	24 MB	45 W	1.04.10
Bartlett Lake	213PE	8 (8P + 0E)	24 MB	65 W	1.04.10
Bartlett Lake	213PTE	8 (8P + 0E)	24 MB	45 W	1.04.10
Bartlett Lake	211E	10 (6P + 4E)	20 MB	65 W	1.04.10
Bartlett Lake	211TE	10 (6P + 4E)	20 MB	45 W	1.04.10
Bartlett Lake	201TE	4 (4P + 0E)	12 MB	45 W	1.04.10
Bartlett Lake	201E	4 (4P + 0E)	12 MB	65 W	1.04.10
Raptor Lake-R	i9-14900	24 (8P + 16E)	36 MB	65 W	1.04.10
Raptor Lake-R	i7-14700T	20 (8P + 12E)	33 MB	35 W	1.04.10
Raptor Lake-R	i7-14700	20 (8P + 12E)	33 MB	65 W	1.04.10
Raptor Lake-R	i5-14500	14 (6P + 8E)	24 MB	65 W	1.04.10
Raptor Lake-R	i5-14500T	14 (6P + 8E)	24 MB	35 W	1.04.10
Raptor Lake-R	i5-14400	10 (6P + 4E)	20 MB	65 W	1.04.10
Raptor Lake-R	i5-14400T	10 (6P + 4E)	20 MB	35 W	1.04.10
Raptor Lake-R	i3-14100T	4 (4P + 0E)	12 MB	35 W	1.04.10
Raptor Lake-R	i3-14100	4 (4P + 0E)	12 MB	60 W	1.04.10
Raptor Lake	i9-13900E	24 (8P + 16E)	36 MB	65 W	1.00.10
Raptor Lake	i9-13900TE	24 (8P + 16E)	36 MB	35 W	1.00.10
Raptor Lake	i7-13700E	16 (8P + 8E)	30 MB	65 W	1.00.10
Raptor Lake	i7-13700TE	16 (8P + 8E)	30 MB	35 W	1.00.10
Raptor Lake	i5-13500E	14 (6P + 8E)	24 MB	65 W	1.00.10
Raptor Lake	i5-13500TE	14 (6P + 8E)	24 MB	35 W	1.00.10
Raptor Lake	i3-13100E	4 (4P + 0E)	12 MB	65 W	1.00.10
Raptor Lake	i3-13100TE	4 (4P + 0E)	12 MB	35 W	1.00.10
Alder Lake	i9-12900E	16 (8P + 8E)	30 MB	65 W	1.00.10
Alder Lake	i9-12900TE	16 (8P + 8E)	30 MB	35 W	1.00.10
Alder Lake	i7-12700E	12 (8P + 4E)	25 MB	65 W	1.00.10
Alder Lake	i7-12700TE	12 (8P + 4E)	25 MB	35 W	1.00.10
Alder Lake	i5-12500E	6 (6P + 0E)	18 MB	65 W	1.00.10
Alder Lake	i5-12500TE	6 (6P + 0E)	18 MB	35 W	1.00.10
Alder Lake	i3-12100E	4 (4P + 0E)	12 MB	60 W	1.00.10
Alder Lake	i3-12100TE	4 (4P + 0E)	12 MB	35 W	1.00.10

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