AIR-151

Intel® Core Processor Series 3 Edge AI System



Features

- Intel® Core 3 304, Core 5 320, and Core 7 350, up to 38 TOPS AI capabilities
- Support up to 64GB DDR5-6400 CSODIMM memory
- Rich I/O Design: 2x LAN, 4x USB-A, 1x CANBus, 1x GPIO, 2x COM (RS-232, RS-485)
- Flexible Expansion: M.2 (AI Card or Storage), 5G/Wi-Fi, PoE module (fanbased only)
- Dual displays support with HDMI+DP, up to 4K resolution
- Support various AI cards
- Support 12-24V_{DC} wide power input and -15~50°C wide temperature

Specifications

Model Name		AIR-1510-43A1 (Fanless) AIR-1510-43B1 (Fanbased)	AIR-1510-46A1 (Fanless) AIR-1510-46B1 (Fanbased)	AIR-1510-48A1 (Fanless) AIR-1510-48B1 (Fanbased)
Processor System	CPU	Intel® Core™ 3 - 304	Intel® Core™ 5 - 320	Intel® Core™ 7 - 350
	Core Number	5, 1P+4LPE	6, 2P+4LPE	6, 2P+4LPE
	Frequency	1.5 GHz		
	AI Capacity	Up to 24 TOPS	Up to 36 TOPS	Up to 38 TOPS
	BIOS	AMI EFI 512 Mbit		
Memory	Technology	DDR5 6400 MT/s CSODIMM		
	Max Capacity	Up to 64GB		
	Socket	1x 262-pin CSODIMM (Non-ECC)		
Graphics	Chipset	Intel® Xe3 graphics up to 16EUs	Intel® Xe3 graphics up to 32EUs	Intel® Xe3 graphics up to 32EUs
Display	HDMI	1x HDMI 2.1 TMDS: 4096 x 2160@60Hz		
	DP	1x DP 1.4a: 4096 x 2160@60Hz		
	Dual Display	1x HDMI + 1x DP		
Ethernet	Interface	RJ-45		
	Speed	Fan less: 2x 10/100/1000/2500 Mbps Intel i226-LM GbE, support Wake On LAN Fanbase: 2x 10/100/1000/2500 Mbps Intel i226-LM GbE, support Wake On LAN, support POE module		
	PoE	Fanless: Not Support Fanbased: Support		
IO Ports	USB Type A	2 x USB 3.2 Type A (Gen2) 2 x USB 2.0 Type A		
	CANBus	1x CANBus (DB9 connector)		
	DI/DO	1x 8-bit (DB9 connector)		
	COM	2x RS-232/RS-485 (default: RS-232) (DB9 connector)		
Other	TPM	TPM 2.0, on board		
Storage	M.2	Fanless: 1x M.2 2280 M Key (PCIe Gen4 x2) for NVMe (default) Fanbased: 1x 128G UFS3.1, on board (default)		
Expansion	M.2	1x M.2 2230 E Key (PCIe x1, USB 2.0) for Wi-Fi		
AI Card	M.2	Fanless: 1x (Gen4 x2) for EAI-1200 Fanbased: 1x (Gen4 x4) for EAI-1921/EAI-1941/EAI-1961		
Power	Power Input	12-24V DC input		
	Power Type	ATX/AT, ATX default		
Power Consumption	Typical (OS idle mode)	TBD		
	Max. (Full loading)	TBD		
Environment	Op. Temp	Fanless: -15~50°C Fanbased: -15~50°C with 0.7m/s air flow		
	Op. Humidity	95% @ 40 °C (non-condensing)		
Mechanical	Dimensions (W x D x H)	Fanless: 158 x 125 x 59 mm Fanbased: 158 x 125 x 60 mm		
	Weight	TBD		
	Mounting	Wall Mount		
Operating System	Microsoft Windows	Windows 11 IoT Enterprise LTSC		
	Linux	Ubuntu 24.04		
Software Support	Software API	Edge AI SDK / SUSI / DeviceOn		
Certifications	EMC/Safety	CE/FCC Class B, CB, UL, CCC and BSMI		

Advantech SUSI is a device management and system monitoring suite for hardware configuration, control, and status monitoring.
SUSI information: https://github.com/ADVANTECH-Corp/SUSI

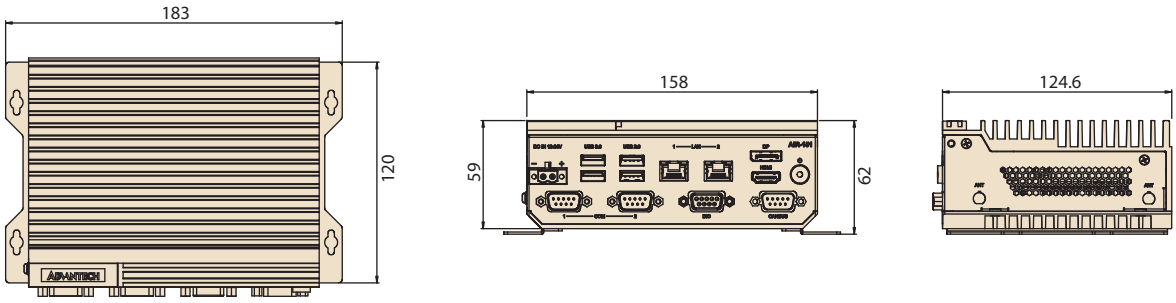
All product specifications are subject to change without notice.

Last updated: 22-Oct-2026

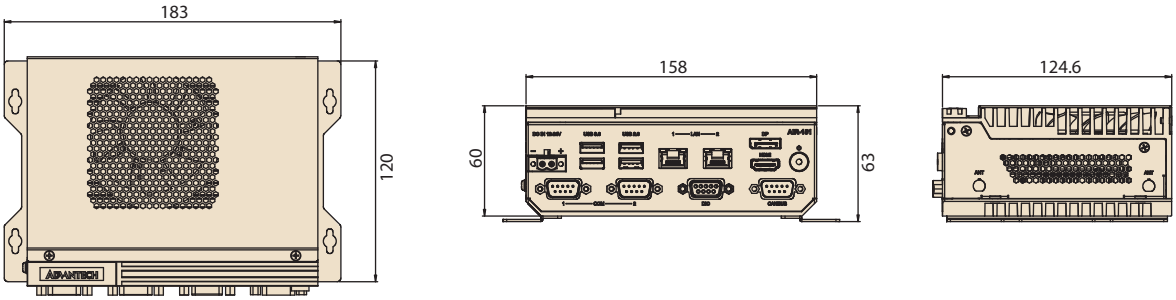
Dimensions

Unit: mm

Fan Less



Fanbase



Ordering Information

Part No.	CPU	RAM	LAN	HDMI	USB-A	CANBus	GPIO	COM
AIR-1510-43A1	Core 3 304	1 socket (up to 64GB)	2	1	1	1	1	1
AIR-1510-46A1	Core 5 320	1 socket (up to 64GB)	2	1	1	1	1	1
AIR-1510-48A1	Core 7 350	1 socket (up to 64GB)	2	1	1	1	1	1
AIR-1510-43B1	Core 3 304	1 socket (up to 64GB)	2, support PoE	1	1	1	1	1
AIR-1510-46B1	Core 5 320	1 socket (up to 64GB)	2, support PoE	1	1	1	1	1
AIR-1510-48B1	Core 7 350	1 socket (up to 64GB)	2, support PoE	1	1	1	1	1

Packing List

Part Number	Description	Quantity
-	AIR-151 Unit	1
-	Wall mount kit for AIR-151	1
1652000099	Power in plug	1
96PSA-A150W24T2-4	A/D 100-240V 150W 24V W/PFC C14 CORD END 62368	1

*In case of any changes, the actual packaging shall prevail

I/O View



Optional Accessories

Part Number	Description
1702002600	Power Cord UL 3P 10A 125V 183cm (US)
1702002605	Power Cord EU 3P 10A 250V 183cm (EU)
1702031801	Power Cord BSI 3P 10A 250V 183cm (UK)
1700000237	Power Cord PSE 3P 12A 125V 183cm (Japan)
1700013977	Power Cord CCC 3P 10A 250V 200cm 90°(China)
EAI-1200-00A1	M.2 key B+M 1x Hailo-8 AI module
EAI-1921-30D2U	Hailo Hailo-10H M.2 2280, Key M,20 TOPS
EAI-1961-20D2E	DEEPX DX-M1 M.2 2280,Gen3 x4,25 TOPS
AIW-173BQ-GI1	Qualcomm Wi-Fi 7 M.2 2230 E Key
MIOE-PSE-DPA1	MIOe-PSE PoE Module A1 dual 15.4W w/ Heatsink

Embedded OS

Part Number	Description
207XXXXXXXXX(TBD)	Ubuntu 24.04
207XXXXXXXXX(TBD)	Win 11 24HL 64b 24H2 ENU