

AIR-411

Edge AI system powered by Intel Bartlett Lake S

Preliminary



Features

- Powered by Intel Bartlett Lake S up to 65W TDP
- SPARKLE Intel® Arc™ Pro B60 supported
- Dual channel memory up to 96GB DDR5 5600MT/s
- Multiple I/O Expansion: 1x PCIe Gen 4, 1 x M.2 M Key (NVME) and 1x M.2 E Key (WiFi)
- High-performance Computing Architecture
- Supports High-Wattage GPUs (up to 400W/FHFL)
- Plug-n-play , HW/SW bundled for easy deployment
- Enterprise lifecycle & validation

Specifications

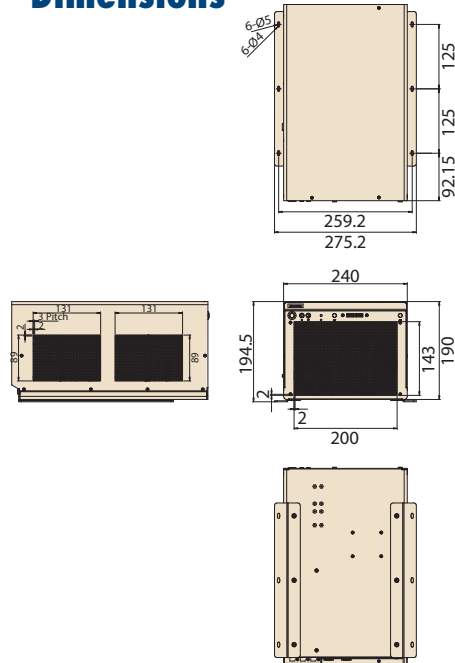
Processor System	CPU	Intel Bartlett Lake S Processors
	Base Frequency	1.6 GHz
	Max, Turbo Frequency	5.6 GHz
	L3 Cache	36 MB Intel® Smart Cache
	TDP	Up to 65W
	Chipset	Q670E / H610E
Memory	Technology	Dual Channel DDR5, up to 5600 MHz (non-ECC)
	Max. Capacity	96GB (up to 48GB per SODIMM)
	Socket	2 x 262pin SODIMM
Network	ETHERNET	up to 2500 Mb/s
	Controller	LAN1: Intel i219 (GbE) LAN2: Intel i226 (2.5GbE)
	Connector	2 x RJ45
Display	HDMI	1 x HDMI2.0b, supports max. resolution 4096 x 2160 @ 60 Hz
	Display Port	2 x DP++, DP1.4a, supports max. resolution 4096 x 2304 @ 60 Hz
IO Ports	USB	2x USB 3.2 Gen2 (10 Gps) 2x USB 3.2 Gen1 (5 Gps) 2x USB 2.0 front panel
	Serial	2 x ports (COM1 RS232, COM2 RS232/422/485)
	GPIO	1 x 8bit GPIO (optional)
	Audio	1 x (Line in/Line out/Mic in)
Expansion	M.2	2230 E Key (PCIe x1; USB2.0) for Wi-Fi/BT
	Add on Slot	PCIe x16 Gen4 (16GT/s) for discrete GPU card and storage devices
Storage	M.2	1 x M.2 M Key NVME
	SATA	2 x 2.5" SATA SSD (Max Height 7mm)
Power Requirements	Power Type	ATX/AT mode (Default ATX)
	Power Input Voltage	100-240V AC
	Power Adapter	850W power supply built-in
Environment	Operational Temperature	0 ~ 45 °C (w/o PCIe Card), 0~ 40 °C (w/ PCIe Card) ^{#2}
	Storage Temperature	-40 ~ 85 °C
	Operating Humidity	95% @ 40 °C (non-condensing)
Mechanical	Dimensions (W x H x D)	240 x 190 x 380.7 mm
	Weight	6.9 kg
Operating System	OS	Windows 11 / Ubuntu 24.04
Software Support	Software API	Advantech Edge AI SDK compatible
Certifications	EMC/Safety	CE/FCC Class B, CB, UL, CCC and BSMI (No RED Certificate)

#1 Devices with graphics cards are not suitable for use in high-vibration environments.

#2 Operating temperature varies by PCIe card; no universal guarantee applies.

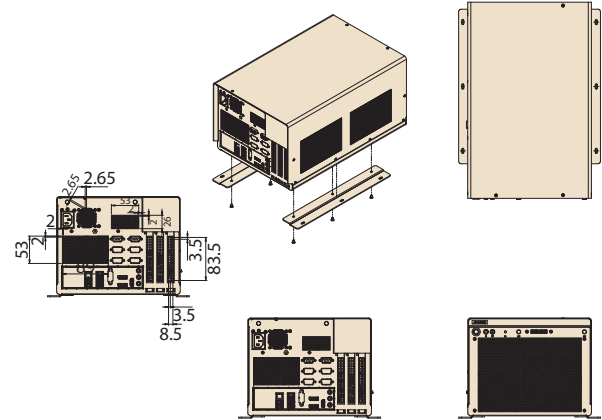
#3 The graphics card models listed above have only been partially tested. Please verify physical fitment as not all dimensions are guaranteed.

Dimensions

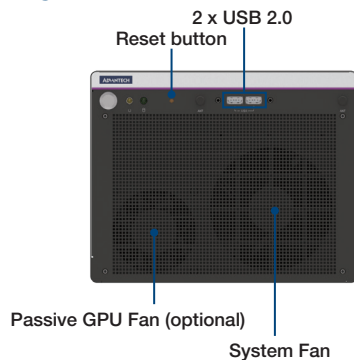


Deskmount

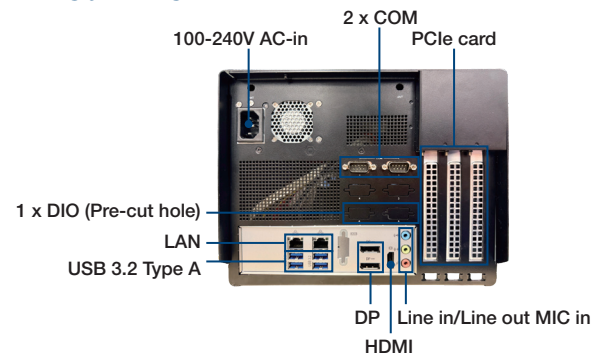
Unit: mm



Front View



Rear View



Ordering Information

Part No.	CPU	DDR5	2.5 GbE	HDMI	DP	SATA	RS-232	RS-232/485	USB 3.2	USB 2.0	GPIO	M.2 M Key	M.2 E Key	Power Supply	Expansion	Made in
AIR-4110-00A1U	Intel Bartlett Lake S 251E	Up to 96GB	2	1	2	2	1	1	2	2	1 (option)	1	1	850W Built-in	One PCIe x16 (signal PCIe x8)	Taiwan

Packing List*

Part Number	Description
-	AIR-411 Unit
1960104726N001	Desk mounting kit
1960118571N000	PCIe Card fixed bracket
1960117846T000	SSD Outside Door
36WSWPDOBUND11	WISE-DeviceOn Package

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

Operating System

Part Number	Description
TBD	Ubuntu Desktop 24.04 LTS
TBD	Windows 11 IoT Enterprise 2024 LTSC ENU 64bit

Optional Item for Default SKU

Part Number	Description
1702002600-03	Power Cord UL 3P 10A 125V 183cm, USA type
1700018705	Power Cord EU 3P 10A 250V 183cm, EU type
1700032693-11	Power Cord BSI 3P 10A 250V 183cm, UK type
1700000237	Power Cord PSE 3P 12A 125V 183cm, PSE special connector
1700036020-01	DB9 Cable for DIO, 40cm
1700036177-01	1 to 2 90C power cable for PCIe card (2x6P-3.0+1x4P-2.0)/2x4P-4.2x2
1700035539-01	1 to 4 90C power cable for PCIe card (2x6P-3.0+1x4P-2.0)/2x4P-4.2x2
1750009113-01	System Fan 8038, G55H2087DHR, 8pin PWM