

EPC-B5587

Embedded System with 4 PCIe Expansion Slots



WISE-DeviceOn

Features

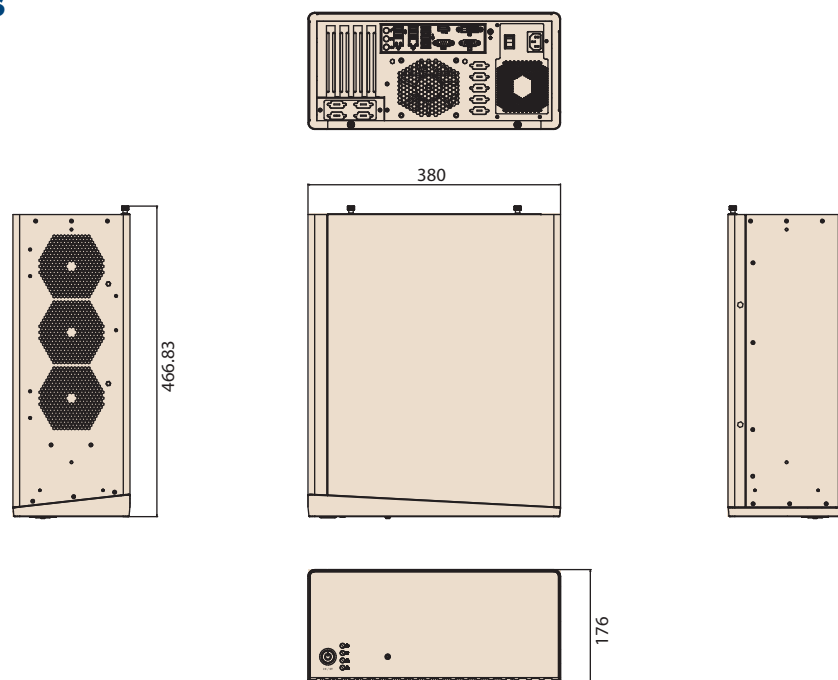
- 4U Embedded System
- Up to 4 PCIe Expansion Slots
- Up to 6 Shock Resistant 2.5" drive bays
- To accommodate 700W or optional 1200W PSU for different applications
- Plentiful IO Ports for Various Applications
- Server Grade CPU for High-end Computing

Specifications

Model Name		EPC-B5587-AB00000	EPC-B5587-AB10000
Motherboard		AIMB-587F-00A1E	AIMB-587WG2-00A1E
Dimensions (W x H x D)	Dimensions (W x H x D)	380 x 176 x 454.1 mm	380 x 176 x 454.1 mm
System Thermal Design	CPU Cooler	CPU cooler 1960067860N001 C.L R4 I-CML-125W 89.7x88.9x64.2-SC 12V4B	CPU cooler 1960047669N001 C.L R3 I-LGA1156 S-95W 12V0.4A 95.0x95.0x69.37mm
	System Fan	1 Fan Axial 91x91x25	1 Fan Axial 91x91x25
Environmental Conditions	Operating Temperature	0 ~ 40°C (w/o Graphic card)	
	Non-operating Temperature	-20 ~ 60°C	
	Humidity	10 ~ 95% @ 40° C, non-condensing	
	Vibration (5 ~5 00Hz)	3Grms	
CPU		*W1290E / *W1290TE *W1270E / *W1270TE *W1250E / *W1250TE i9-10900E / i9-10900TE i7-10700E / i7-10700TE i5-10500E / i5-10500TE	i9-10900E / i9-10900TE i7-10700E / i7-10700TE i5-10500E / i5-10500TE
Chipset		W480E	
Storage		6 x 2.5" HDD/SSD	2 x 2.5" HDD/SSD
Front IO	Power switch	1	
	LED	1 Power-On LED 1 Power LED 1 HDD LED 2 LAN LED	
	Power remote Jack	1 2.5Φ Jack	
	USB Type-A	2 USB3.2 Gen1 2 USB2.0	N/A
Rear IO	Display ports	2 DP ports 4096 x 2304 @ 60 Hz 1 VGA	2 DP ports 4096 x 2304 @ 60 Hz
	USB	4 USB3.2 Gen2	
	LAN	4 RJ45 GbE LAN1: Intel I219LM LAN2: Intel I210AT LAN3/4: Intel X550-AT2	2 RJ45 GbE LAN1: Intel I219LM LAN2: Intel I210AT
	Audio	1 Mic-in, 1 Line-out	
Certification	EMC / Safety / Certifications	CE / FCC / CCC / CB / UL	
Power Requirements	Power Supply Unit	Default 700W (Optional 1200W based on project request, not all certifications apply to it)	
Weight		15.5 Kg	
Mounting bracket		4U Rack Mount	
PCIe Expansions		1 PCIe x16	
		1 PCIe x4	
		1 PCIe x1	

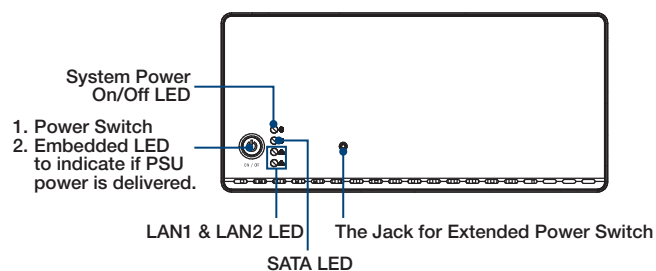
Dimensions

Unit: mm

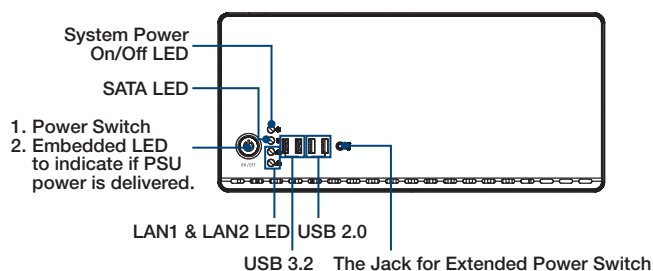


Front View

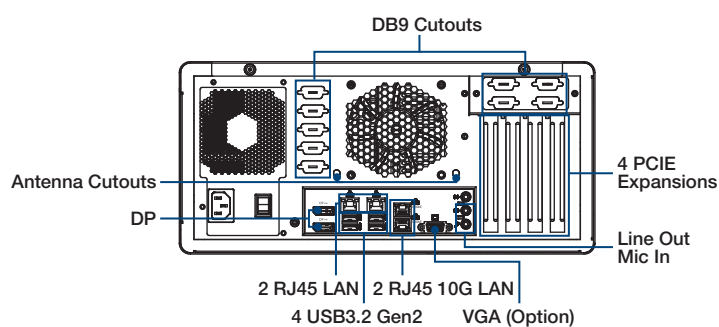
EPC-B5587-AB10000



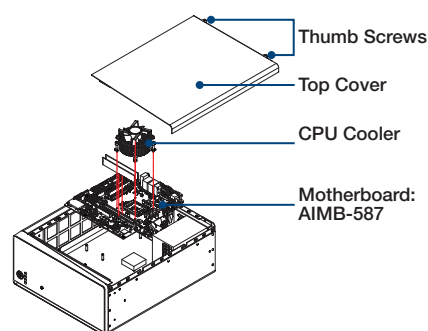
EPC-B5587-AB00000



Rear View



Inside



Ordering Information

Model					Front IO		Rear IO							
	PSU	Chipset	UDIMM 288-Pin Slot	2.5" SATA Bay	USB3.2 Gen1 Type-A	USB2.0 Type-A	Display Port	VGA	GbE	10 GbE	USB3.2 Gen2 x2	PCIe x4	PCIe x1	PCIe x16
EPC-B5587-AB00000 Bare-bone	700W	W480E	4	6	2	2	2	1	2	2	4	1	1	1
EPC-B5587-AB10000 Bare-bone	700W	W480E	4	2	N/A	N/A	2	N/A	2	N/A	4	1	1	1

Remarks

Bare-bone, NO CPU, NO RAM, NO Storages

Packing List

For EPC-B5587-AB10000

Item	Part Number	Quantity
CPU Cooler	1960047669N001	1
2.5" Storage Metal Tray	1960106298N000	1
SATA2 Cable	1700032173-01	1
SATA1 Cable	1700032174-01	1
Screw M3x4 To Fix SATA Cable	193B030430	4
Screw M3x6 To Fix 2.5" Storage Tray	1930004828	4
Rubber for 2.5" Storage Tray	1990001365	4
Screw M3*4 To Fix 2.5" Storage	1930005836-01	8
Adhesive backed mount	1990025684S000	1
CABLE TIE (P.G. GT-160M)	1992822010	4

For EPC-B5587-AB00000

Item	Part Number	Quantity
CPU Cooler	1960067860N001	1
Screw M3*4 To Fix 2.5" Storage	1930005836-01	24

Optional Accessory

Item	Part Number	Description
Power Cable	1700000596-11	Power cable 3-pin 183cm, China type
	1702031801	Power cable 3-pin 183cm, UK type
	1702002600	Power cable 3-pin 183cm, USA type
	1702002605	Power cable 3-pin 183cm, Europe type
	1700000237-01	Power cable 3-pin 183cm, Japan type
Bracket	EPC-BRKB5-CARD	Metal Brackets for PCIe Expansion Cards
	EPC-BRKB5-RACK	EPC-B5000 Rack Mount Bracket
COM Cable	EPC-CABB5-COM07	EPC-B5587 COM cable peripheral (1 1to1 DB-9 cable, 1 1to4 DB-9 cable)
	EPC-CABB5-COM07-01	EPC-B5587 COM cable peripheral (2 1to1 DB-9 cable)

Embedded OS/API

OS/API	Part Number	Description
Win10	20706WX9HS0136	img W10 1809HL (Eng)
	20706WX9ES0150	img W10 1809VL (Eng)

WISE-DeviceOn

Edge AI OTA and Container Management

WISE-DeviceOn End-to-End Solution for Edge AI

Even if all datasets, algorithms, trainings, UI/UX, and more are functioning, how can you easily deploy an AI application to hundreds, or thousands, of inference devices in production? How can you efficiently manage AI models (software updates, CI/CD), in addition to all remote, hardware devices, such as sensors?



Solution Advantages



Performance Booster

- Inference optimization
- Open Neural Network Compiler (ONNC)
- Save over 45% DRAM consumption



Fleet Management

- Remote batch control for power management, reboot, terminal and screenshot
- Real-time monitoring, diagnostics and notification
- Over 10,000 devices around the globe



Container and OTA

- Streamlined deployment process
- Docker container management
- Software OTA (over-the-air) updates



AI Security

- AI containers deployed via Azure Container Registry and Harbor
- Secured data connection (TLS/SSL)
- Integrity protection based on digital signature

👉 Find More Information about [WISE-DeviceOn End-to-End Solution for Edge AI](#)