

AIR-500D

Intel® Xeon® D-1700 Series Extreme AI Edge Server Support Dual PCIe x16 GPU

Preliminary



Features

- Intel® Xeon® D-1700 series processor
- 4x DDR4 SO-DIMM sockets support ECC/nonECC memory up to 128GB
- Support Dual PCIe x16 350W High performance GPU cards
- Rich storage with 4x 2.5" SATAIII SSD RAID 0/1 support
- Versatile expansions with PCIe x1/x4/x16, M.2 B key and E key support
- Built-in 1200W power supply for max. 700W GPU card
- IPMI 2.0-compliant management with reliability and security enhancements
- Qualified for Edge AI SRP of WISE-DeviceOn

WISE-DeviceOn

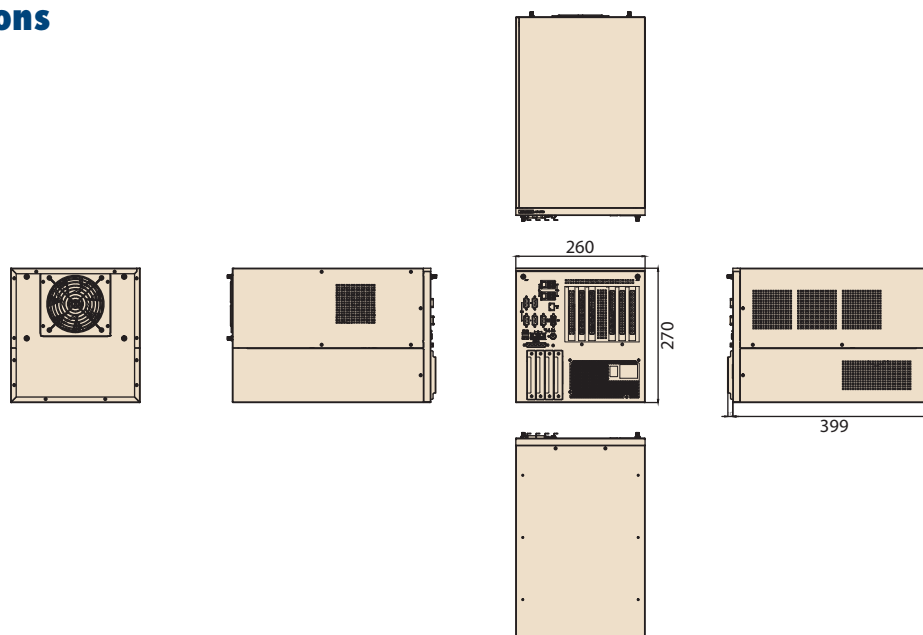
Specifications

Processor System	CPU	Intel Xeon D-1746TER	Intel Xeon D-1735TR	Intel Xeon D-1715TER
	Base Frequency	2.0 GHz	2.2 GHz	2.4 GHz
	Max. Turbo Frequency	3.1 GHz	3.4 GHz	3.5 GHz
	L3 Cache	15 MB	15 MB	10 MB
	Core Number	10	8	4
	TDP	67W	59W	50W
	Chipset	N/A		
	BIOS	AMI EFI 512Mbit		
Memory	Technology	Up to 4x 2666/2933MHz DDR4 ECC/non-ECC SO-DIMM		
	Max. Capacity	128 GB		
	Socket	4 x 260-pin SO-DIMM		
Ethernet	LAN 1, 2, 3, 4	10/100/1000 Mbps Intel I210 GbE, support Wake On Lan		
Others	Watch dog Timer	255-level timer interval, setup by software		
	TPM	TPM 2.0 (Support by optional AMO-I029)		
I/O Interface	Serial Port	4 x RS-232/422/485 port with auto flow control		
	USB	6 x USB 3.0		
	VGA	1 x VGA via Aspeed AST2500 BMC		
	Others	1 x 16bit DIO, 1 x GbE Management port, 1 x Console port		
Expansions	M.2 B Key	1 x 2230/2242/2280/3030/3042/3052 support SIM holder #1		
	M.2 E Key	1 x 2230 for WiFi Module #1		
	Add-on Card Slot	1 x PCIe x1, Max. card size support (H x L): 111mm x 167.6mm 1 x PCIe x4, Max. card size support (H x L): 111mm x 312mm 2 x PCIe x16 (Signal each PCIe x8), Max. card size support (H x L): 125mm x 320mm		
Storage	Storage	4 x 2.5" SATAIII Swappable SSD (Max Height 15mm), support RAID 0/1		
Software Support	Microsoft Windows	Windows Server, Windows 10 IoT		
	Linux	Ubuntu Desktop 20.04 LTS		
Power Requirements	Power Type	ATX		
	Power Input Voltage	100-240V AC		
	Power Adapter	1200W power supply built-in		
Mechanical	Dimensions (W x H x D)	260 x 270 x 399 mm		
	Weight	10.6 kg		
System Management	IPMI	Aspeed AST2500 BMC IPMI 2.0 with virtual media over LAN and KVM-over-LAN support		
	Operating Temperature	-10 ~ 50 °C w/ 0.7 m/s airflow (with extended temp peripherals)		
Environment	Storage Temperature	-40 ~ 85 °C		
	Relative Humidity	95% @ 40 °C (non-condensing)		
	EMC	CE/FCC Class B, CCC, BSMI		
	Safety	CB(62368), UL(62368), CCC, BSMI		

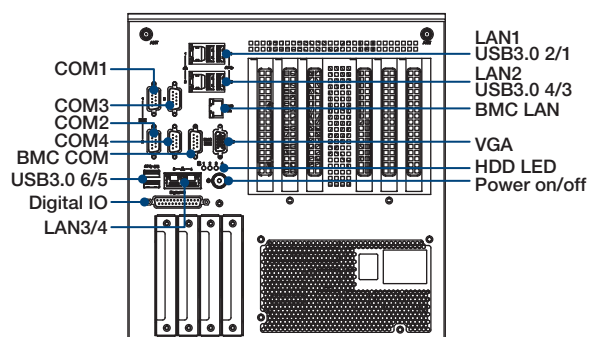
#1 SIM holder and M.2 slot are hardware interfaces for wireless communication integration only. System level RF certification is not available.

Dimensions

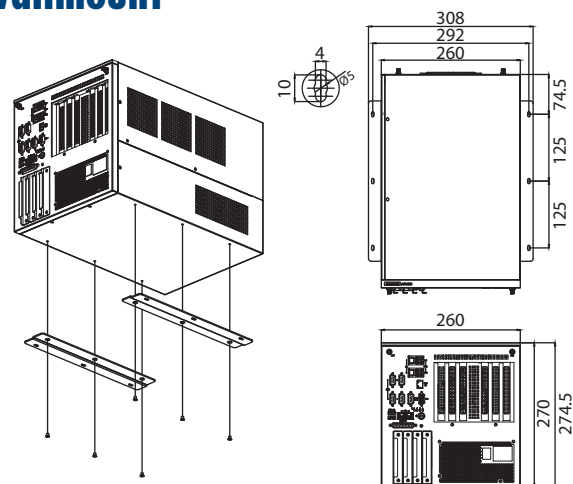
Unit: mm



Front Panel External I/O Mechanical Layout/Drawing



Wallmount



Ordering Information

Part No.	CPU	DDR4	GbE	VGA	SATA	RS-232/422/485	USB 3.0	M.2 B Key	M.2 E Key	SIM	IPMI	Power Supply	Expansion
AIR-500D-T10A1	Intel Xeon D-1746TER												1x PCIe x1
AIR-500D-T40A1	Intel Xeon D-1735TR	Up to 128GB	4	1	4	4	6	1	1	1	Yes	1200W Built-in	1x PCIe x4
AIR-500D-T50A1	Intel Xeon D-1715TER												2x PCIe x16

Note: Memory/Storage and operating system bundled by request.

Packing List

Part Number	Description
-	AIR-500D Unit
-	User Manual (Simplified Chinese)
-	China RoHS

Operating System

Part Number	Description
TBD	Windows 10 IoT
TBD	Ubuntu Desktop 20.04 LTS

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](#)