AIR-500D

Intel® Xeon® D-1700 Series Extreme Al **Edge Server Support Dual Graphic Cards**



Features

- Intel® Xeon® D-1700 series processor
- 4x DDR4 SO-DIMM sockets support ECC/nonECC memory up to 128GB
- Support Dual PCle x16 400W High performance GPU cards
- Rich storage with 4x 2.5" SATAIII SSD RAID 0/1 support
- Versatile expansions with PCle x1/x4/x16, M.2 B key and E key support
- Built-in 1200W power supply for max. 800W GPU power consumption
- IPMI 2.0-compliant management with reliability and security enhancements
- Advantech WISE-DeviceOn containing remote control, edge Al Apps management and OTA updates
- Powerful edge server solution for Al training, advanced data analysis with domain focus edge cloud deployment

WISE-DeviceOn Company C F FC ROHS



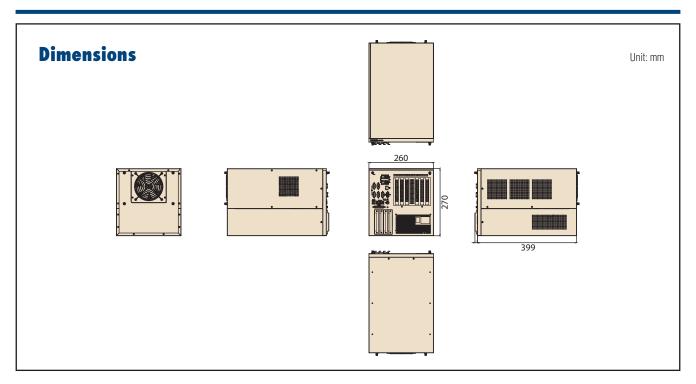


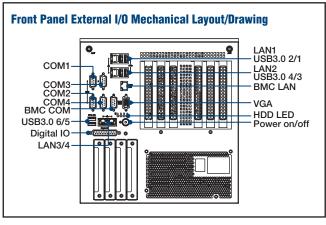


Specifications

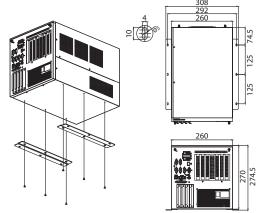
	CPU	Intel Xeon D-1746TER	Intel Xeon D-1735TR	Intel Xeon D-1715TER					
	Base Frequency	2.0 GHz	2.2 GHz	2.4 GHz					
Processor System	Max. Turbo Frequency	3.1 GHz	3.4 GHz	3.5 GHz					
	L3 Cache	15 MB	15 MB	10 MB					
	Core Number	10	8	4					
	TDP	67W	59W	50W					
	Chipset	N/A							
	BIOS	AMI EFI 512Mbit							
	Technology	Up to 4x 2666/2933MHz DDR	4 ECC/non-ECC SO-DIMM						
Memory	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						
	Watch dog Timer	255-level timer interval, setup							
Others	TPM	TPM 2.0 (Support by optional AMO-I029)							
		Serial Port 4 x RS-232/422/485 port with auto flow control							
	USB	6 x USB 3.0							
O Interface	VGA	1 x VGA via Aspeed AST2500 BMC							
	Others	1 x 16bit DIO, 1 x GbE Management port, 1 x Console port							
	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}							
Expansions	Add-on Card Slot*	1 x PCle x1, Max. card size support (H x L): 111mm x 167.6mm 1 x PCle x4, Max. card size support (H x L): 111mm x 312mm 2 x PCle x16 (signal PCle x8), Max. card size (H x L x W): 125mm x 320mm x 2-slots *If only 2 PCle x16 GPU cards installation, Max. card size (H x L x W): 125mm x 320mm x 3-slots							
Storage	Storage		O (Max Height 15mm), support RAID						
	Microsoft Windows	Windows Server, Windows 10							
Software Support	Linux	Ubuntu Desktop 20.04 LTS							
	Power Type	ATX							
Power Requirements	Power Input Voltage	100-240V AC							
	Power Adapter	1200W power supply built-in							
Power Consumption	Typical	79.2	73.7	56.1					
CPU/Memory Only)	Max.	116.6	116.6	82.5					
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 ov	er LAN and KVM-over-LAN support						
	Operating Temperature	-10 ~ 50 °C w/ 0.7 m/s airflow (with extended temp peripherals)							
	Storage Temperature	-40 ~ 85 °C							
Environment	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.





Deskmount



Ordering Information

Part No.	СРИ	DDR4	GbE	VGA	SATA	RS-232/422/485	USB 3.0	GPI0	M.2 B Key	M.2 E Key	SIM	IPMI	TPM	Power Supply	Expansion
AIR-500D-T10A1	Intel Xeon D-1746TER	Up to 128GB	4		4	4	6	1	1	1	1	Yes	Optional	1200W Built-in	1x PCle x1 1x PCle x4
AIR-500D-T40A1	Intel Xeon D-1735TR			1											
AIR-500D-T50A1	Intel Xeon D-1715TFR														2x PCle x16

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

Packing List

Part Number	Description
-	AIR-500D Unit
2006500D00	User Manual (Simplified Chinese)
-	China RoHS
1960104726N001	Desk mounting kit
-	M.2&PCle Expansion Brackets

Operating System

Part Number	Description
20706U20DS0053	Ubuntu Desktop 20.04 LTS

Optional Item for Default SKU

Part Number	Description
PCIE-2221NP-00A1E	2-port 10GBase-T Ethernet PCI Express Server Adapter with Intel® X550 controller
PCIE-2221NP-01A1E	1-port 10GBase-T Ethernet PCI Express Server Adapter with Intel® X550 controller
AM0-I029	TPM2.0 Infineon SLB9670V2.0
1700021723-02	Power Cord UL 3P 15A 125V 183cm(IEC320-C19), USA type
1700023533-01	Power Cord EU 3P 16A 250V 183cm. EU type
1700023534-01	Power Cord BSI 3P 16A 250V 183cm, UK type
1700023536-01	Power Cord PSE 3P 20A 250V 183cm, PSE special connector

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 Al 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

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