AIR-500D

Edge Server Support Dual Graphic Cards



WISE-DeviceOn 🖑 C E FC

Specifications

Intel® Xeon® D-1700 Series Extreme AI

Features

- Intel[®] Xeon[®] D-1700 series processor
- 4x DDR4 SO-DIMM sockets support ECC/nonECC memory up to 128GB
- Support Dual PCIe x16 400W 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. 800W GPU power consumption
- IPMI 2.0-compliant management with reliability and security enhancements
- Advantech WISE-DeviceOn containing remote control, edge AI Apps management and OTA updates
- Powerful edge server solution for Al training, advanced data analysis with domain focus edge cloud deployment

	CPU	Intel Xeon D-1746TER	Intel Xeon D-1735TR	Intel Xeon D-1715TER						
Processor System	Base Frequency	2.0 GHz	2.2 GHz	2.4 GHz						
	Max. Turbo Frequency	3.1 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 DDF	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-1029)								
	Serial Port	4 x RS-232/422/485 port with								
	USB	6 x USB 3.0								
I/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									
	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	4 x 2.5" SATAIII Swappble SSD (Max Height 15mm), support RAID 0/1								
v	Microsoft Windows	Windows Server 2019 64bit, (By project)								
Software Support	Linux	Ubuntu Desktop 20.04 LTS								
	Power Type	ATX								
Power Requirements	Power Input Voltage	100-240V AC								
r owor noquironionits	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						
<u> </u>	Dimensions (W x H x D)	260 x 270 x 399 mm	110.0	02.0						
Mechanical	Weight	10.6 kg								
System Management	IPMI	Aspeed AST2500 BMC	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,								
1 SIM holder and M 2 slot are h	nardware interfaces for wireless communica									

AD\ANTECH Edge Al Systems

All product specifications are subject to change without notice.

AIR-500D

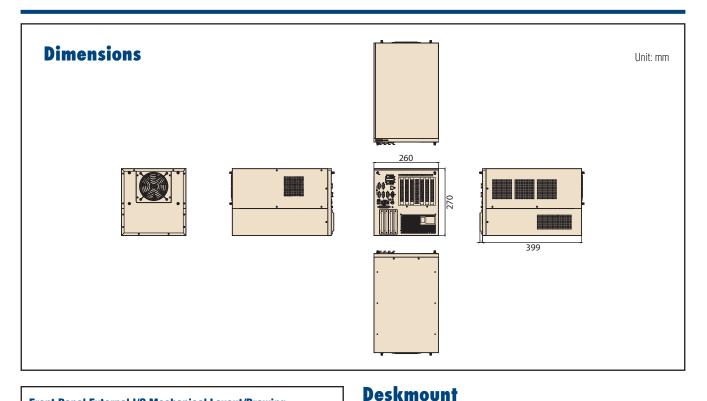
260

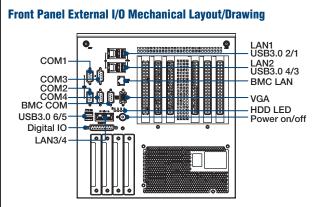
260

5

270

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Ordering Information

Part No.	CPU	DDR4	GbE	VGA	SATA	RS-232/422/485	USB 3.0	GPIO	M.2 B Key	M.2 E Key	SIM	IPMI	ТРМ	Power Supply	Expansion
AIR-500D-T10A1	Intel Xeon D-1746TER			1	4	4	6 1	1	1	1	1	Yes	Optional	1200W Built-in	1x PCle x1 1x PCle x4 2x PCle x16
AIR-500D-T40A1	Intel Xeon D-1735TR														
AIR-500D-T50A1	Intel Xeon D-1715TER	Up to													
AIR-500D-T10A2	Intel Xeon D-1746TER with new stepping Z2	128GB													
AIR-500D-T40A2	Intel Xeon D-1735TR with new stepping Z2														
AIR-500D-T50A2	Intel Xeon D-1715TER with new stepping Z2														

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&PCIe Expansion Brackets

Operating System

Part Number 20706U20DS0053 20706WS96S0006 Description Ubuntu Desktop 20.04 LTS Windows Server 2019 Standard 64bit

Optional Item for Default SKU

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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
AMO-1029	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 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



screenshot

Fleet Management

· Real-time monitoring, diagnostics and notification

management, reboot, terminal and

· Remote batch control for power

• Over 10,000 devices around the globe



Container and OTA

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



Al Security

- Al 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