## 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

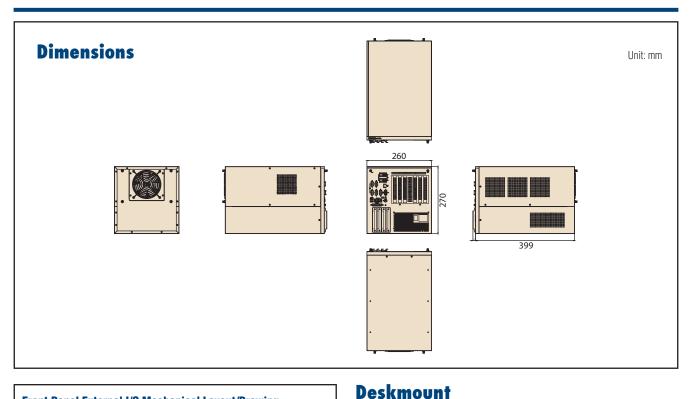
#### WISE-DeviceOn OUNCE C FC ROHS

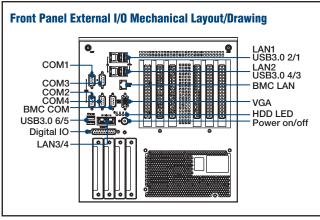


#### **Specifications**

	ODLI	1 1 1 V D 1710TED	1 1 1 1 V D 4705TD	1 1 1 V D 1715TED					
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							
	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							
	Serial Port	4 x RS-232/422/485 port with							
	USB	6 x USB 3.0	auto now dontror						
I/O Interface	VGA	1 x VGA via Aspeed AST2500 BMC							
	Others		1 x VGA VIa Aspeeu AS12500 BMC 1 x 16bit DIO, 1 x GbE Management port, 1 x Console port						
	M.2 B Key								
	M.2 E Key	1 x 2230/2242/2280/3030/3042/3052 support SIM holder #1 1 x 2230 for WiFi Module #1							
	IVI.2 E Ney	===	apart (II v.I.), 111 mm v.107 Cmm						
Expansions		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							
	Add-on Card Slot*	2 x PCIe x16 (signal PCIe x8), Max. card size (H x L x W): 125mm x 320mm x 2-slots *If only 2 PCIe x16 GPU cards installation, Max. card size (H x L x W): 125mm x 320mm x 3-slots							
Storage	Storage		) (Max Height 15mm), support RAID						
Siturage	Microsoft Windows			0/1					
Software Support		Windows Server 2019 64bit, (By project)							
	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					
Machanical	Dimensions (W x H x D)	260 x 270 x 399 mm							
Mechanical	Weight	10.6 kg							
Custom Management	IPMI	Aspeed AST2500 BMC							
System Management	IFIVII	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support							
	Operating Temperature	-10 ~ 50 °C w/ 0.7 m/s airflov	(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,	RSMI						
d OIM balder and M.O. alak are b	Juioty	ob(ozooo), october level DE antific							

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





# 308 292 260 574 521 521

#### **Ordering Information**

Part No.	CPU	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														
AIR-500D-T40A1	Intel Xeon D-1735TR														4 001 4
AIR-500D-T50A1	Intel Xeon D-1715TER	Up to	4	4	4	4	c	4	4	4	4	Yes	Optional	1200W	1x PCle x1 1x PCle x4
AIR-500D-T10A2	Intel Xeon D-1746TER with new stepping Z2	128GB	4	1	4	4	0	1	1	1	1	ies	Optional	Built-in	2x PCle x16
AIR-500D-T40A2	Intel Xeon D-1735TR with new stepping Z2														2 1 0 0 10
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	Description
20706U20DS0053	Ubuntu Desktop 20.04 LTS
20706WS96S0006	Windows Server 2019 Standard 64bit

#### **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
AMO-I029A	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 Al 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



#### **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