AIR-510

AI Ready Edge System with 3 PCIe Expansion Slots



WISE-DeviceOn

Features

- 4U AI Ready System powered by Intel Core 14th/ 13th/ 12th gen. processors
- Able to feature 1x 350W graphic card and 2x PCIe add-on cards
- Two Shock Resistant 2.5" drive bays for up-to 8 pcs 2.5" SSD
- Built-in ATX 3.0 850W PSU
- NVIDIA Certified with RTX 6000 Ada
- Supports Edge AI SDK to deploy the edge AI solutions smoothly

Specifications

14th Processor System	CPU	i9-14900/ i9-14900T	i7-14700/ i7-14700T	i5-14500/ i5-14500T	i5-14400/ i5-14400T	i3-14100/ i3-14100T	Intel® Processor 300	Intel® Processor 300T				
	Core Number (Performance and Efficient core)	8P+16E	8P+12E	6P+8E	6P+4E	4P	2P	2P				
	Max. Speed	5.8/ 5.5Ghz	5.4/ 5.2Ghz	5.0Ghz/ 4.8Ghz	4.7Ghz/ 4.5Ghz	4.7Ghz/ 4.4Ghz	3.9Ghz	3.4Ghz				
	Smart cache	36M	33M	24M	20M	12M	6M	6M				
	TDP	65W/35W	65W/35W	65W/35W	65W/35W	60W/35W	46W	35W				
13th Processor System	CPU	i9-13900E/ i9-13900TE	i7-13700E/ i7-13700TE	i5-13500E/ i5-13500TE	i3-13100E/ i3-13100TE	i9-13900	i7-13700	i5-13500	i5-13400	i3-13100		
	Core Number (Performance and Efficient core)	8P+16E	8P+8E	6P+8E	4P+0E	8P+16E	8P+8E	6P+8E	6P+4E	4P+0E		
	Max. Speed	5.20GHz/ 5.00GHz	5.10 GHz/ 4.80 GHz	4.60 GHz/ 4.50 GHz	4.40 GHz/ 4.10 GHz	5.60 GHz	5.20 GHz	4.80 GHz	4.80 GHz	4.50 GHz		
	Intel Smart Cache	36MB/ 36MB	30MB/ 30MB	24MB/ 24MB	12MB/ 12MB	36MB	30MB	24MB	20MB	12MB		
	TDP (W)	65W/35W	65W/35W	65W/35W	60W/35W	35W	35W	65W	65W	60W		
12th Processor System	CPU	i9-12900E/ i9-12900TE	i7-12700E/ i7-12700TE	i5-12500E/ i5-12500TE	i3-12100E/ i3-12100TE	G7400E/ G7400TE	G6900E/ G6900TE	i9-12900	i7-12700	i5-12500	i5-12400	i3-12100
	Core Number (Performance and Efficient core)	8P+8E	8P+4E	6P+0E	4P+0E	2P+0E	2P+0E	8P+8E	8P+4E	6P+0E	6P+0E	4P+0E
	Max. Speed	5.0GHz/ 4.8GHz	4.8GHz/ 4.7GHz	4.5GHz/ 4.3GHz	4.2GHz/ 4.0GHz	3.6GHz/ 3.0GHz	3.0GHz/ 2.4GHz	5.10GHz	4.9GHz	4.6GHz	4.4GHz	4.3GHz
	Intel Smart Cache	30MB/ 30MB	25MB/ 25MB	18MB/ 18MB	12MB/ 12MB	6MB/6MB	4MB/4MB	30MB	25MB	18MB	18MB	12MB
	TDP (W)	65W/35W	65W/35W	65W/35W	60W/35W	46W/35W	46W/35W	65W	65W	65W	65W	60W
Chipset		Q670E										
BIOS		AMI BIOS UEFI 256 Mbits SPI										
Memory	Technology	DDR5 up to 4400 MT/s										
	Max. Capacity	192 GB (48GB per DIMM)										
	Socket	4 x 288-pin UDIMM (Non-ECC)										
Discrete GPU Slot	PCIe Slot	PCIe Gen5 x16										
	Qty	1										
	TDP	Up to 350W										
Built-in Display	Chipset	Intel® UHD Graphics 770/ 730/ 710 (depends on CPU model)										
	Graphic Engine	Direct x 12, OpenGL 4.5										
	DP	2, up to 4096 x 2304 @ 60Hz										
	HDMI	1, up to resolution 4096 x 2160 @ 60Hz. Supports HDR										
Ethernet	LAN1	10/100/1000 Mbps Intel I219-LM GbE, support Wake On Lan										
	LAN2	10/100/1000/2500 Mbps Intel I226 GbE, support Wake On Lan										
Audio	Interface	Realtek ALC888S, High Definition Audio, Line-out/Mic-in										
Others	Watch dog Timer	255-level timer interval, setup by software										
	TPM	TPM 2.0										

All product specifications are subject to change without notice.

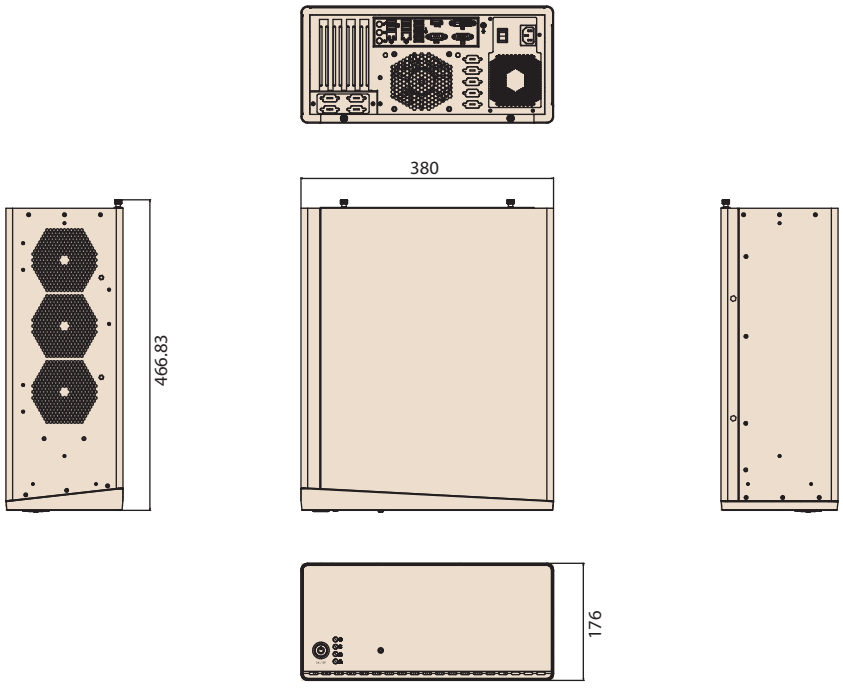
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Specifications (Cont.)

I/O Interface	Serial Port	6 (5 x RS-232, 1 x RS-232/422/485 with auto flow control) Optional
	USB	3 x USB 3.2 (Gen2 x 1, 5G)
	DIO	8bit DIO
Expansions	PCIe Slot	1 x PCIe x4 Gen4.0 1 x PCIe x4 Gen3.0
Storage	SSD	8 x 2.5" SATAIII hard drive Bay with Max Height 98mm
	NVME	1 x M.2 M Key 2280 NVMe PCIe x4
Software Support	Microsoft Windows	Windows 10 IoT 2021 LTSC/ Windows 11 IoT Enterprise
	Linux	Ubuntu Desktop version is TBD
Power Requirements	Power Type	AC in
	Power Input Voltage	100 - 240 V
	Power Supply	850W built-in
Mechanical	Mounting	Rack mounting (Optional)
	Dimensions (W x H x D)	380 x 176 x 466.83 mm
	Weight	11 kg
Environment	Operating Temperature	Without PCIe cards peripherals: 0~40 °C
	Vibration During Operation	With SSD: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.
	Shock During Operation	With SSD: 10 G, IEC 60068-2-27, half sine, 11 ms duration
	Storage Temperature	-40 ~ 85 °C
	Relative Humidity	95% @ 40 °C (non-condensing)
	EMC	CE/FCC Class B, CCC, BSMI
	Safety	CB, UL, CCC, BSMI

Dimensions

Unit: mm



Ordering Information

Model	PSU	Chipset	UDIMM 288-Pin Slot	2.5" SATA Bay	USB3.2 Gen1 Type-A	Display Port	HDMI	GbE	2.5 GbE	USB3.2 Gen2 x2	USB3.2 Gen1	USB Type-C Gen2 x2	PCIE x4	PCIE x16
AIR-510-000A1 Bare-bone	850W	Q670E	4	8	2	2	1	1	1	5	4	1	2	1

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

Packing List

Item	Part Number	Quantity
CPU Cooler	1970005349T001	1
2.5” Storage Metal Tray	1960115564N000	2
SATA Cable	1700003194	8
Screw M3*4 To Fix 2.5” Storage	1930005836-01	32
CABLE TIE (P.G. GT-160M)	1992822010	6

Embedded OS/API

OS	Part Number	Description
Windows	20706WLH1S0006	Windows 11 IoT Enterprise for i9, i7
Windows	20706WLV1S0006	Windows 11 IoT Enterprise for i5, i3
Windows	20706WX1HS0111	Windows 10 IoT LTSC for i9, i7
Windows	20706WX1VS0111	Windows 10 IoT LTSC for i5, i3
Ubuntu	20706U24DS0008	Ubuntu 24.04

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
	1700001714	Power cable 3-pin 183cm, Taiwan type
COM Cable	1700034131-01	2 Port COM Cable
	1700033421-01	4 Port COM Cable
Rack Mount	EPC-BRKB5-RACK	Rack Mount Bracket & Handle