

AOSI-020

Fanless Embedded System with
Intel Elkhart Lake platform

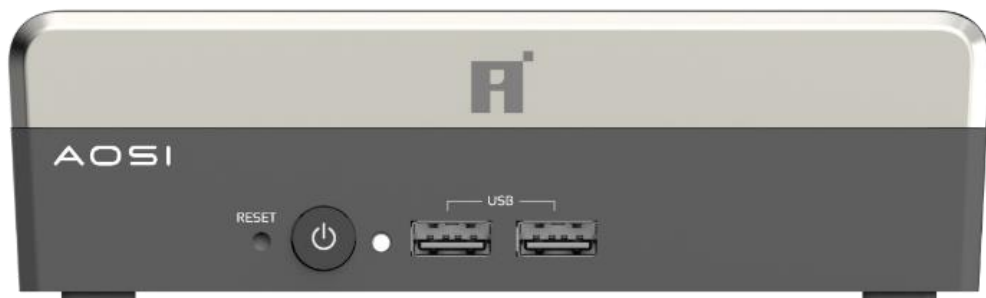


- Intel Atom® Processor x6000, N6000, J6000 Series
- 2 DP++, resolution up to 4096x2160 @ 60Hz
- OpenGL 4.5, DirectX 12, Open CL 1.2
- Support Microsoft Windows 10/Linux
- Multiple Expansion: 1 M.2 B Key, 1 M.2 E Key
- Rich I/O: 2.5GbE, SATA, USB 3.2, USB 2.0
- Support TPM 2.0

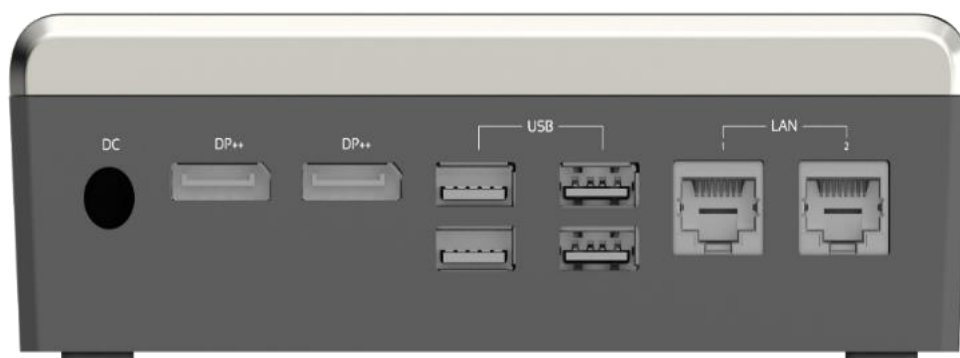
Specifications

Processor	CPU	Intel Embedded Series Intel® Atom® x6425E Processor, Quad Core, 1.5M Cache, 2.0GHz (3.0GHz), 12W Intel® Atom® x6413E Processor, Quad Core, 1.5M Cache, 1.5GHz (3.0GHz), 9W Intel® Atom® x6211E Processor, Dual Core, 1.5M Cache, 1.3GHz (3.0GHz), 6W Intel Industrial Series Intel® Atom® x6425RE Processor, Quad Core, 1.5M Cache, 1.9GHz, 12W Intel® Atom® x6414RE Processor, Quad Core, 1.5M Cache, 1.5GHz, 9W Intel® Atom® x6212RE Processor, Dual Core, 1.5M Cache, 1.2GHz, 6W Intel PC Client Series Intel® Celeron® J6412 Processor, Dual Core, 1.5M Cache, 2.0GHz (2.6GHz), 10W
	Memory	One 260-pin SO-DIMM up to 32GB, DDR4 up to 3200MHz (in-band ECC support in embedded/industrial SKU)
	Operating System	Microsoft Windows 10/ Linux
Expansion Slot	M.2(B key)	1 2242/3042/2280 (PCIe x1/SATA3.0/USB2.0)
	M.2(E key)	1 2230 (PCIe x1/USB2.0)
	Nano SIM socket	1 (connected to M.2 B key)
Physical Characteristics	Dimension	TBD
	Weight	TBD
Environment	Operating Temperature	Standard SKU: 0°C~50°C Wide Temp SKU: -20°C~60°C
	Storage Temperature	-40 ~ 85°C
	Relative Humidity	5 to 95% RH (non-condensing)
	Vibration (Operating)	IEC 60068-2-64 Test Fh: Vibration Board-Band Random Test, 3G, 5 ~ 500 Hz, 1 hr/axis
	Shock (Operating)	IEC 60068-2-27 Test Ea: Shock Test, 30 G, half sine, 11 ms duration
Graphics	Controller	Intel® UHD Graphics
	Feature	OpenGL 4.5, DirectX 12, Open CL 1.2, Vulkan 1.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H.265, VP8, VP9 HW Encode: AVC/H.264, JPEG/MJPEG, HEVC/H.265, VP9
	DP++	2 x DP++, resolution up to 4096x2160 @ 60Hz
Storage	SATA DOM	up to 512GB
	M.2(B key)	up to 2TB
Front I/O	Buttons	Power Button, Reset Button
	USB	2(2 x USB 2.0)
	Audio	Mic-in, Line-out
Rear I/O	Display Port	2 (DP++)
	USB	4(2 x USB 3.2 /2 x USB 2.0)
	RJ45	2 (Intel I226)
Power Supplier	Type	9~36V
	Connector	DC Jack
Warranty		2 years
Certification		CE/FCC/RoHS

Front Panel



Rear I/O



Order Information

Standard Model

Part Number	Description	Power	CPU	Memory	SSD	Temp.
AOSI-02A1I-00W13A2	Intel Atom Embedded x6425E,Box System	9~36V	x6425E	8GB	128GB	-20 to 70°C
AOSI-02A2I-00W13A2	Intel Atom Embedded x6413E,Box System	9~36V	x6413E	8GB	128GB	-20 to 70°C
AOSI-02A3I-00W13A2	Intel Atom Embedded x6211E,Box System	9~36V	x6211E	8GB	128GB	-20 to 70°C
AOSI-02A4I-00W13A2	Intel Atom Industrial x6425RE,Box System	9~36V	x6425RE	8GB	128GB	-20 to 70°C
AOSI-02A5I-00W13A2	Intel Atom Industrial x6414RE,Box System	9~36V	x6414RE	8GB	128GB	-20 to 70°C
AOSI-02A6I-00W13A2	Intel Atom Industrial x6212RE,Box System	9~36V	x6212RE	8GB	128GB	-20 to 70°C
AOSI-02C8I-00W13A2	Intel Celeron® J6412,Box System	9~36V	J6412	8GB	128GB	0 to 50°C

Packing List

Part Number	Description	Quantity
	AOSI-020 series Box PC	1
	Mounting screws for M.2 module	1

Optional Accessories

Part Number	Description	Part Number	Description
	Adapter, 60W + 12V + DC Jack		Hailo M.2 AI Acceleration Module
	Power Cord, Standards (USA/EUR/CH), 1.8m		Wi-Fi Kit
	DDR4 SODIMM M4S0(2G~32G)		SATADOM 3TE7(32G~512G)
	M.2 SSD 3TE7(32G~2T)		

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