

ARK-3532C

Intel® 10th Gen Xeon® W / Core™ i LGA1200 Expansion Fanless Box PC

NEW



Features

- Support Intel® 10th Gen. Xeon® W and Core™ i3/i5/i7/i9 processor
- Triple independent display: VGA + HDMI + Optional Display
- DDR4 SO-DIMM ECC/non-ECC memory support up to 64 GB
- 12-36V_{DC} wide range power input
- Up to 4sets 2.5" hard drive bays, support Intel® SW RAID
- Support 4GbE, 8USB, 6COM, 16bit DIO, TPM2.0
- SUSI API, WISE-DeviceOn, McAfee and Acronis bundled
- 2 x Independent USB 3.0 with lockable design
- Support Windows 11 IoT Enterprise LTSC



WISE-DeviceOn SUSI API



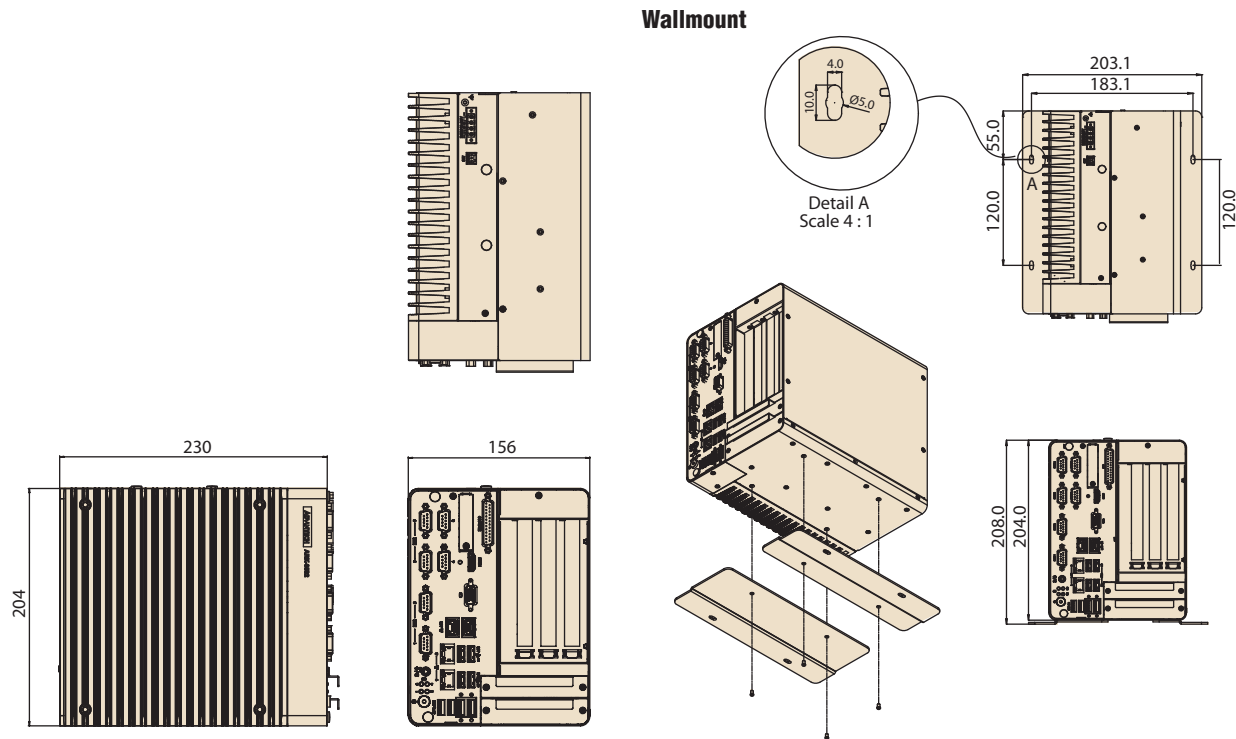
Specifications

Processor System	CPU	W-1290TE	i9-10900E	i7-10700E	i5-10500E	i3-10100E	G5900E
	Frequency	1.8-4.5GHz	2.8-4.7GHz	2.9-4.5GHz	3.1-4.2GHz	3.2-3.8GHz	3.2GHz
	L3 Cache	20MB	20MB	16MB	12MB	6MB	2MB
	Cores	10	10	8	6	4	2
	TDP	35W	65W	65W	65W	65W	65W
	ECC memory support (support by CPU)	YES	NO	NO	NO	YES	NO
	Chipset	W480E					
Memory	BIOS	AMI EFI 256Mbit					
	Technology	DDR4 2933 MHz					
	Max. Capacity	64 GB					
Graphics	Socket	2 x 260-pin SO-DIMM					
	Chipset	Intel® UHD Graphics 630					
	Graphic Engine	DirectX 12, OpenGL 4.5					
	VGA	HW Encode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, JPEG/MJPEG and VP8. HW Decode: H.265/HEVC, H.264/MPEG-4 AVC, MPEG-2, VC-1/WMV9, JPEG/MJPEG, VP8 and VP9					
	HDMI	1920x1200@ 60Hz					
Ethernet	Optional 3rd Display module	1 HDMI port, HDMI 1.4 for HD video playback, 4096x2160@30Hz					
	Triple Display	DVI-D / DP / HDMI Display Port					
Audio	Interface	VGA+HDMI + 3rd display module					
	LAN1	10/100/1000 Mbps Intel I219-LM GbE, support Wake On Lan					
Others	LAN2, 3, 4	10/100/1000 Mbps Intel I210 GbE, support Wake On Lan					
	Watch dog Timer	Realtek ALC888S, High Definition Audio, Line-out/Mic-in (switch)					
I/O Interface	TPM	255-level timer interval, setup by software					
	Serial Port	TPM 2.0 (by optional AMO-I029)					
	USB	4 x RS-232/422/485 port with auto flow control, 2 x RS-232; COM3 support 5V/12V power supply (by jumper)					
	GPIO	4 x USB 3.2 (10Gps), 2 x USB 3.0, 2 x Independent USB 3.0					
Expansions	Mini PCIe	16bit GPIO					
	M.2	1 x Full-size Mini PCIe (1 x support mSATA, 1 x support SIM holder) #1					
	Add-on Card Slot	1 x E key for WiFi #1					
	Maximum card size	1 Slot PCIe4 + 2 Slot PCI					
Storage	HDD	Suggest maximum power consumption 10W for each slot					
	mSATA	110mm (H) x 180mm (L)					
Software Support	Microsoft Windows	2 x 2.5" SATAIII 15mm height HDD bay support Intel SW RAID (Up to 4 x 2.5" SATAIII HDD bays by optional AMK-A0035)					
	Linux	1 x mSATA socket (Share with Mini PCIe)					
Power Requirements	Power Type	Windows 10					
	Power Input Voltage	By Project Support					
	Power Adapter	AT/ATX					
Power Consumption (CPU/Memory Only)	Typical	12-36V					
	Max.	AC to DC, 230W (Optional)					
Mechanical	Construction	30W					
	Mounting	64.8W					
	Dimensions (W x H x D)	Aluminum housing					
	Weight	Desk mounting					
Environment	Operating Temperature	156 x 204 x 230 mm					
	Storage Temperature	5.705Kg					
	Relative Humidity	Up to 65W processor with extended temp peripherals: -20 ~ 60° C with 0.7m/s air flow with HDD: 0 ~ 40° C with 0.7m/s air flow					
	Vibration During Operation	-40 ~ 85° C					
	Shock During Operation	95% @ 40° C (non-condensing)					
	EMC	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis.					
	Safety	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration					

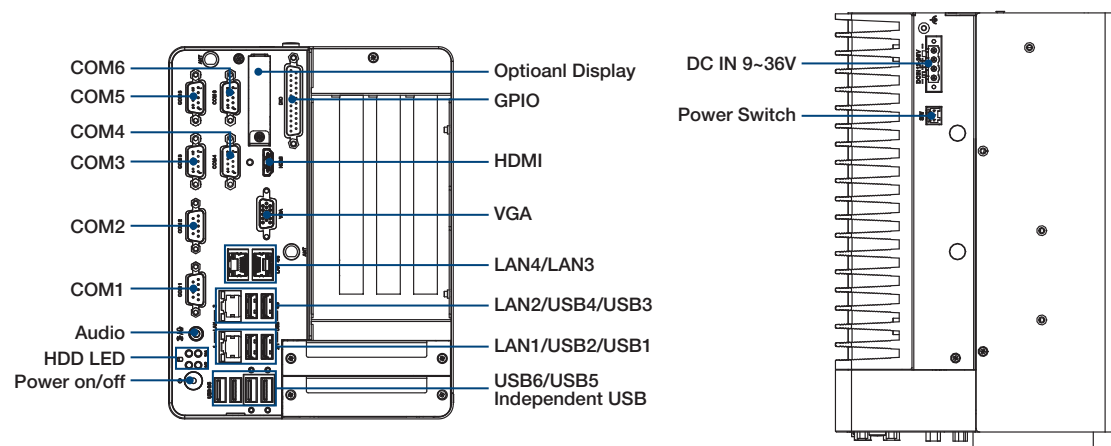
#1 SIM holder and M.2 slot are hardware interfaces for wireless communication integration only. System level RF certification is not available.

Dimensions

Unit: mm



External I/O Mechanical Layout/Drawing



Ordering Information

Part No.	CPU	DDR4	Gbe	VGA	HDMI	Option 3rd display module	RS-232	RS-232/422/485	Audio	USB	MiniPCle	SIM	M.2	DC Input	Expansion	Made in
ARK-3532C-00A1	LGA1200 Socket Type	Up to 64GB	4	1	1	1	2	4	Mic-in or Line-out	8	1	1	1	12-36V	PClex4 + 2PCI	China
ARK-3532C-00A1U	LGA1200 Socket Type	Up to 64GB	4	1	1	1	2	4	Mic-in or Line-out	8	1	1	1	12-36V	PClex4 + 2PCI	Taiwan

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

Packing List

Part Number	Description
-	ARK-3532C Unit
-	User Manual (Simplified Chinese)
-	China RoHS
-	Desk mounting kit
36WSWPD0BUND11	WISE-DeviceOn
36WSWPD0BD0211	McAfee Application Control Lite/Acronis Backup 11.7 for Windows PC

Embedded OS

Part Number	Description
20706WX9HS0125	Windows 10 IoT Enterprise 2019 LTSC 64bit for Xeon/Core i9/Core i7
20706WX9VS0129	Windows 10 IoT Enterprise 2019 LTSC 64bit for Celeron/ Core i5/Core i3
20706WX1HS0102	img W10 21HL ARK-3532 64b 21H2 ENU for Xeon/Core i7/ Core i9
20706WX1VS0102	img W10 21VL ARK-3532 64b 21H2 ENU for Core i3/Core i5
20706WX1ES0102	img W10 21EL ARK-3532 64b 21H2 ENU for Celeron
20706WLH1S0016	Windows 11 IoT Enterprise 2024 LTSC 64bit for Xeon/Core i9/Core i7
20706WL1S0016	Windows 11 IoT Enterprise 2024 LTSC 64bit for Celeron/ Core i5/Core i3

ARK-3532C Default SKU Option Items

Optional Item for Default SKU

Part Number	Description
96PSA-A230W24P4-3	AC to DC adapter, DC 24V 230W, -20 ~ 60 °C
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, EU type
1702031801	Power cable 3-pin 183cm, UK type
1700000237	Power cable, 3-Pin 183cm, PSE type

ARK-3532C Optional HDD expansion Kit

Part Number	Description
AMK-A0035	2 x internal HDD bays kit (Max Height 15mm)

Optional Display Module

Part Number	Description
AMO-D001E	DVI-D module
AMO-D002E	DP module
AMO-D003E	HDMI module

Optional TPM Module

Part Number	Description
AMO-I029	TPM 2.0 Infineon SLB9670V2.0