

**Annexure 1-Technical Specifications of Industrial PC & Accessories -Indent Ref- 353865**

**Make: Advantech, Model: ARK-3534C-00A1**

S.No	Specifications	Compliance	Remarks
1	Processor System	CPU	i9-14900
		Frequency	5.4GHz
		Cache	24
		TDP	65W
		Chipset	H610E
		BIOS	AMI EFI 256Mbit
2	Memory	Technology	DDR54800MHz
		Max. Capacity	16 GB,
		Socket	2 x 262-pin SO-DIMM
		Hard Disk	Industrial grade NVME SSD: 512GB (-20°C to 60°C)
3	Graphics	Chipset	Intel® UHD Graphics 770
		HDMI	2 HDMI port, HDMI 2.0 for HD video playback, 4096x2160@60Hz
		Triple Display	HDMI+HDMI+3 <sup>rd</sup> Display (Optional)
4	Ethernet	LAN1	10/100/1000 Mbps Intel i219-LM GbE, support Wake On LAN
		LAN2	10/100/1000/2500 Mbps Intel i225-V GbE, support Wake On LAN
5	Audio	Interface	Realtek ALC888S, High Definition Audio, Line-out/Mic-in (switch)
		Watch dog Timer	25-level timer interval, setup by software
6	I/O Interface	Serial Port	4 x RS-232/422/485 port with auto flow control;
		USB	4 x USB 3.2 (2 x Gen2, 2 x Gen1), 4 x USB 2.0
	Expansions	M.2	1 x M2. 2230 E key and 1 x M.2 2280 B key with SIM holder #1
		Add-on Card Slot	Maximum card size 110mm (H) x 180mm (L) (If card power consumption over 30W for add-on cards, please bundled with AMO-3508 kit for power and thermal solutions) 2 Slots PCI (Default)
		HDD	2 x 2.5" SATAIII 15mm height HDD bay (Up to 3 x 2.5" SATAIII HDD bays)
		NVME	1 x PCIe2 (Share with M.2 2280 B key)
8	Software Support	Linux	Compatible with Latest version of RHEL
		Power Type	AT/ATX
9	Power Requirements	Power Input Voltage	9-36V
		Power Adapter	AC to DC, DC24V 230W, -20 to 60 Degree Centigrade
10	Power Consumption (CPU/Memory Only)	Typical	56.1W
		Max.	92.4W
		Construction	Aluminum housing
11	Mechanical	Mounting	Desk mounting
		Dimensions (WxHxD)	156 x 204 x 230 mm
		Weight	5.705Kg

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18/11/24.

S.No	Specifications	EEE Compliance	Remarks
12	Operating Temperature	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	
	Storage Temperature	-40~85°C	
	Relative Humidity	95% @ 40°C (non-condensing)	
	Vibration During Operation	With SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock During Operation	With SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration	
	EMC	CE/FCC Class B, CCC, BSMI	
	Safety	CB, UL, CCC, BSMI	
<b>NOTE:</b>			
1	Licensed Latest RHEL server 8.3 or above(DVD or Pen drive) shall be provided		
2	Power Adaptor (DC24V 230W, -30 ~ +70°C – GST160A24-R7B) Along with Power card is to be provided along with PC.		
3	Industrial Grade NVME SSD: 512GB (-20°C -60°C)is to be supplied along with PC		
4	HDMI Cable , External USB DVD Drive, Pen drive with 32 GB are to be provided.		
5	Speakers Make: Zebronics Model No:ZEB-S320 or equivalent with similar dimensions speakers shall be supplied along with PC		
6	Manufacturer Test reports like EMC, Climatic, Functional test etc. for the Embedded PC, Monitor & PCI Relay Card shall be provided along with the material.		

### Inspection clauses:

1. Embedded PC's, Monitors along with PCI Relay cards shall undergo the Functional Test-1, Burn in Test (168 Hours), Functional Test-2 as per the approved test procedure along with Customer NPC at Supplier Premises.
2. All required documents like specification, Test procedures shall be submitted for approval within 10 days after placing the PO.

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