

Panel PC					
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Tablet PC	MS-1A91	MS-1A22	MS-1A32	MS-1A71	MS-1A81
Industrial Computer	Panel PC				
COM Express Board	LCD Size	10.1"	12.1"	15"	15.6"
	Resolution	1024 x 600	1024 x 768	1024 x 768	1920 x 1080
Pico-ITX Board	Brightness (cd/m2)	500	500	350	500
	Contrast Ratio	500	700	800	1000
3.5" Board	Support Colors	16.7M	16.7M	16.2M	16.7M
	Pixel Pitch (H/Vmm)	0.217 x 0.208	0.24 x 0.24	0.297 x 0.297	0.17925 x 0.17925
EPIC Board	Viewing Angle	70/70/60/60	80/80/70/70	80/80/70/80	89/89/89/89
	Touch Panel	5-Wire Resistive	Projective Capacitive 5-Wire Resistive	Projective Capacitive 5-Wire Resistive	Projective Capacitive
Mini-ITX Board	CPU	Intel® Alder Lake N Series Intel® processor N97 2.0GHz , QC , 12W Intel® Atom X7425E 1.5GHz , QC, 12W	Intel® Alder Lake N Series Intel® processor N97 2.0GHz , QC , 12W Intel® Atom X7425E 1.5GHz , QC, 12W Intel® Core i3-N305 1.8GHz , 8C, 15W		
	Frequency	3.2 up to 3.80 GHz	3.2 up to 3.80 GHz	3.2 up to 3.80 GHz	3.2 up to 3.80 GHz
Micro-ATX Board	L2 Cache	6MB	6MB	6MB	6MB
	Chipset	SoC	SoC	SoC	SoC
ATX Board	Technology	Single-channel DDR5 MHz	Single-channel DDR5 MHz	Single-channel DDR5 MHz	Single-channel DDR5 MHz
	Max. Capacity	Up to 16GB	Up to 16GB	Up to 16GB	Up to 16GB
	Socket	1 x 262-pin SO-DIMM	1 x 262-pin SO-DIMM	1 x 262-pin SO-DIMM	1 x 262-pin SO-DIMM
	Display Interface	HDMI up to 3840 x 2160 DP up to 4096 x 2160	HDMI up to 3840 x 2160 DP up to 4096 x 2160	HDMI up to 3840 x 2160 DP up to 4096 x 2160	HDMI up to 3840 x 2160 DP up to 4096 x 2160
	Controller	2 x Intel® I225V Co-Lay Intel® I225LM PCIe 2.5GbE LAN	2 x Intel® I225V Co-Lay Intel® I225LM PCIe 2.5GbE LAN	2 x Intel® I225V Co-Lay Intel® I225LM PCIe 2.5GbE LAN	2 x Intel® I225V Co-Lay Intel® I225LM PCIe 2.5GbE LAN
	Mini-PCIe	N/A	N/A	N/A	N/A
	M.2	1 M.2 E key (reserved for WiFi)	1 M.2 E key (reserved for WiFi)	1 M.2 E key (reserved for WiFi)	1 M.2 E key (reserved for WiFi)
	SATA	N/A	1 x 2.5" HDD (Option)	1 x 2.5" HDD (Option)	1 x 2.5" HDD (Option)
	M.2	1 x M.2 B key (reserved for storage)	1 x M.2 B key (reserved for storage)	1 x M.2 B key (reserved for storage)	1 x M.2 B key (reserved for storage)
	mSATA	N/A	N/A	N/A	N/A
	CFast	N/A	N/A	N/A	N/A
	CompactFlash	N/A	N/A	N/A	N/A
	RJ-45	2	2	2	2
	Audio	1 x Line-out 1 x MIC-in	1 x Line-out 1 x MIC-in	1 x Line-out 1 x MIC-in	1 x Line-out 1 x MIC-in
	USB	2 x Dual Stacked Type-A USB 3.1 2 x USB 2.0	2 x Dual Stacked Type-A USB 3.1 2 x USB 2.0	2 x Dual Stacked Type-A USB 3.1 2 x USB 2.0	2 x Dual Stacked Type-A USB 3.1 2 x USB 2.0
	Serial	1 x COM (1 x edge I/O) COM1: RS-232/422/485, 0V/5V/12V	3 x COM (1 x edge I/O, 2 x internal) COM1~2: RS-232/422/485, 0V/5V/12V COM3: RS-232, 0V/5V/12V (COM2~3 Option with cable)	3 x COM (1 x edge I/O, 2 x internal) COM1~2: RS-232/422/485, 0V/5V/12V COM3: RS-232, 0V/5V/12V (COM2~3 Option with cable)	3 x COM (1 x edge I/O, 2 x internal) COM1~2: RS-232/422/485, 0V/5V/12V COM3: RS-232, 0V/5V/12V (COM2~3 Optionwith cable)
	Parallel	N/A	N/A	N/A	N/A
	PS/2	N/A	N/A	N/A	N/A
	HDMI	1	1	1	1
	DVI	N/A	N/A	N/A	N/A
	DisplayPort	1	1	1	1
	VGA	N/A	N/A	N/A	N/A
	Antenna	Inside	Inside	Inside	Inside
	DC Input	DC-in 12~24V	DC-in 12~24V	DC-in 12~24V	DC-in 12~24V
	IP Rating	Front IP65 / Rear 41	Front IP65 / Rear 41	Front IP65 / Rear 41	N/A
	Operating Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
	Operating Humidity	20%~90% RH	20%~90% RH	20%~90% RH	20%~90% RH
	Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
	Storage Humidity	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing	10% ~ 90% non-condensing
	Housing	Plastic / Metal	Plastic / Metal	Plastic / Metal	Plastic / Metal
	Dimensions (L x W x D)	200.75 x 267.32 x 40.8 mm	200.75 x 267.32 x 40.8 mm	291.5 x 359.50 x 38.1 mm	333.01 x 538.55 x 41.95 mm
	Weight	1.8kg (3.97lbs)	2kg (4.4lbs)	3kg (6.61lbs)	5.6kg (12.34lbs)
	Mounting	VESA 75 x 75, 100 x 100 mm (Optional)	VESA 75 x 75, 100 x 100 mm (Optional)	VESA 75 x 75, 100 x 100 mm (Optional)	VESA 75 x 75, 100 x 100 mm (Optional)
	EMC	FCC, CE, BSMI, VCCI	FCC, CE, BSMI, VCCI	FCC, CE, BSMI, VCCI	FCC, CE, BSMI, VCCI
	Safety	PSE	PSE	PSE	PSE
	OS Support	Windows 10 IoT Enterprise LTSC 2021 Windows 11 IoT Enterprise 2022			