

# MS-1A81

21.5" Front IP65 Fanless HMI Panel PC with Intel® Alder Lake N Series

NEW



## Features

- Intel® Alder Lake N CPU
- Panel Size: 21.5"
- Fully Flat Panel / Fanless & Ultra Slim Design
- Capacitive / Resistive Type Touch
- IP65 Front Panel and IP41 for Rear
- Backup Battery for 30 mins
- Rich I/O
- Dual Storage: HDD+SSD
- Intel® WLAN Support



Stand



Rear Cover



Vesa Mount

## Specifications

<b>Display</b>	LCD Size	21.5"
	Resolution	1920 x 1080
	Brightness (cd/m2)	500
	Contrast Ratio	1000
	Support Colors	16.7M
	Pixel Pitch (H/ Vmm)	247.95 x 247.95 (um)
Viewing Angle	89/89/89/89	
<b>Touch Panel</b>		Projective Capacitive
<b>System Processor</b>	CPU	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
	L2 Cache	6MB
	Chipset	SoC
<b>Memory</b>	Technology	Single-channel DDR5 MHz
	Max. Capacity	Up to 16GB
	Socket	So-DIMM Slot (262-Pin)
<b>Graphic</b>	Display Interface	1 x HDMI-Port Connector 1 x DP-Port Connector
<b>Ethernet</b>	Controller	2 x Intel® I225V Co-Lay Intel® I225LM PCIe 2.5GbE LAN
<b>Expansion Slot</b>	Mini-PCIe	N/A
	M.2	1 M.2 E key (reserved for WiFi)
<b>Storage</b>	SATA	1 x 2.5" HDD/SSD
	M.2	1 x M.2 B key (reserved for storage)
	mSATA	N/A
	CFast	N/A
	CompactFlash	N/A
<b>I/O Interface</b>	RJ-45	2
	Audio	1 x Line-out and 1 x MIC in jack
	USB	2 x Dual Stacked Type-A USB 3.1 2 x USB 2.0 Ports,
	Serial	3 x COM (1 x Edge I/O , 2 x internal) COM1,COM2 support RS-232/422/485 (0v/5v/12v)
	Parallel	N/A
	PS/2	N/A
	HDMI	1
	DVI	N/A
	DisplayPort	1
	VGA	N/A
	Antenna	Inside
<b>Power Supply</b>	DC Input	DC 12~24V
<b>Environment</b>	IP Rating	Front IP65 / Rear 41
	Operating Temperature	0°C ~ 40°C
	Operating Humidity	20%~90% RH
	Storage Temperature	-20°C ~ 60°C
	Storage Humidity	10% ~ 90% non-condensing
<b>Physical characteristics</b>	Housing	Plastic / Metal
	Dimensions (L x W x D)	333.01 x 538.55 x 41.95 mm
	Weight	4.8kg (10.56lbs)
	Mounting	VESA (75 x 75 , 100 x 100)mm
<b>Certification</b>	EMC	FCC ,CE, BSMI, VCCI
	Safety	PSH11:H69
<b>Software Platform</b>	OS Support	Windows 10 IoT Enterprise LTSC 2022, Windows 11 IoT Enterprise