EP-238 Panel PC

23.8'' Intel Celeron/Atom/core i3/i5/i7 CPU
Industrial Fanless Panel PC

Front IP 65

Features:

- 23.8" (1920x1080) 350 nits IPS LCD
- Intel Celeron / Atom or Core i3/i5/i7 CPU
- 2*RJ-45, 4*USB, 6*COM, 1*HDMI
- 1* Expansion Slot, Support 4G/5G and WIFI
- DC 9-36V power input/overvoltage protection
- -20℃~60℃ Temperature, 24/7 operation
- 10 points touch PCAP touch screen
- 1* Multifunctional Expansion Card slot
- Front IP65 compliant
- Anti-Static/-Pulse/-Surge/-Radiation
- Compact Modular Architecture
  Front Display, Rear Computing Module

Specifications:

System Hardware

CPU	J1900	J6412	N95 / N100
	i3-4010U	i3-7100U / 8130U / 10110U	i3-1215U / 1315U
	i5-4260U	i5-7200U / 8250U / 8365U / 10310U	i5-1235U / 1335U
	i7-4650U	i7-7500U / 8550U / 10710U	i7-1255U / 1270P / 1355U
Memory	2*DDR III RAM Slots	2*DDR IIII RAM Slots	2*DDR IIII RAM Slots
	Up to 16GB	Up to 32GB	Up to 64GB
Storage	1* MSATA SSD Slot	1* SATA SSD Slot	1* M.2 Key-M SSD Slot

Display

LCD Type	23.8″ LCD	Luminance	350 cd/m^2, optional 1000 cd/m^2
Touch screen	Capacitive touch screen	Viewing angle	89 / 89 / 89 / 89
Resolution	1920*1080	Front Camera	Optional 2 MP or 5 MP
Colour	16,2 M	Options	AG, wet hand/gloove touch, optical bonding

OS

OS	Windows and Linux

I/O Ports

USB	4*USB3.0 +1*USB2.0 (Built-in)	Mini PCIe	1*Mini PCIe, supports WIFI and 4G/5G
Serial Port	4*RS232, 2*RS232/422/485	M.2	1*M.2 NVME SLOT(2280)
Network Port	2* RJ45 Gigabit network interface	Video	1*HDMI, max. 4096*2106 @60 Hz
Audio	1*Line-out	DC Port	Phoenix terminal 2pin

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Expansion Card

COM Port-2	2*RS-232 / 485 (DB9 type)	Ethernet Port-2.	2*Intel i211V LAN Chip (RJ-45 type)
COM Port-6	4*RS-232/485+2*RS-232 (Phoenix type)	Ethernet Port-4	4*Intel i211V LAN Chip (RJ-45 type, POE function or M12 type optional)
10G Ethernet Port-2	2*10Gbps Ethernet Ports (SFP+ type)		
USB Port-4	4*USB 3.0 (Type-A)	GPIO Port-14	14 ports GPIO, 7*GPI+7*GPO, 3.3V (Phoenix terminal type)
Mini PCIE Slot-2	2*Mini PCIE, support 4G and WIFI module		
M.2 Slot-1	1*M.2 Key-B slot, Support 5G module	DIDO Port-16	16 ports DIDO, 8*DI+8*DO, 24V, Isolation (Phoenix Type), with 4*RS-485 COM ports
M.2 NVME SSD Slot-1	1*M.2 NVME SSD slot		
SATA SSD Slot-1	1*SATA 3.0 SSD Slot, Support RAID 1	CAN Port-2	2*CAN interfaces (Phoenix terminal type)
UPS battery	1.2AH or 4.8AH or Super Capacitor module		

Mechanical

Dimension (WxHxD)	584*355.5*70 mm	Material	Aluminum alloy
Weight	8 kg	Mounting	VESA mounting: 100*100mm
Color	Dark grey	Embedded Install.	574*345.5 mm (Cut out Dimension)

Power

Power Input	DC 9-36V with over-voltage protection	Connector	2 Pin Phoenix Terminal type DC Plug

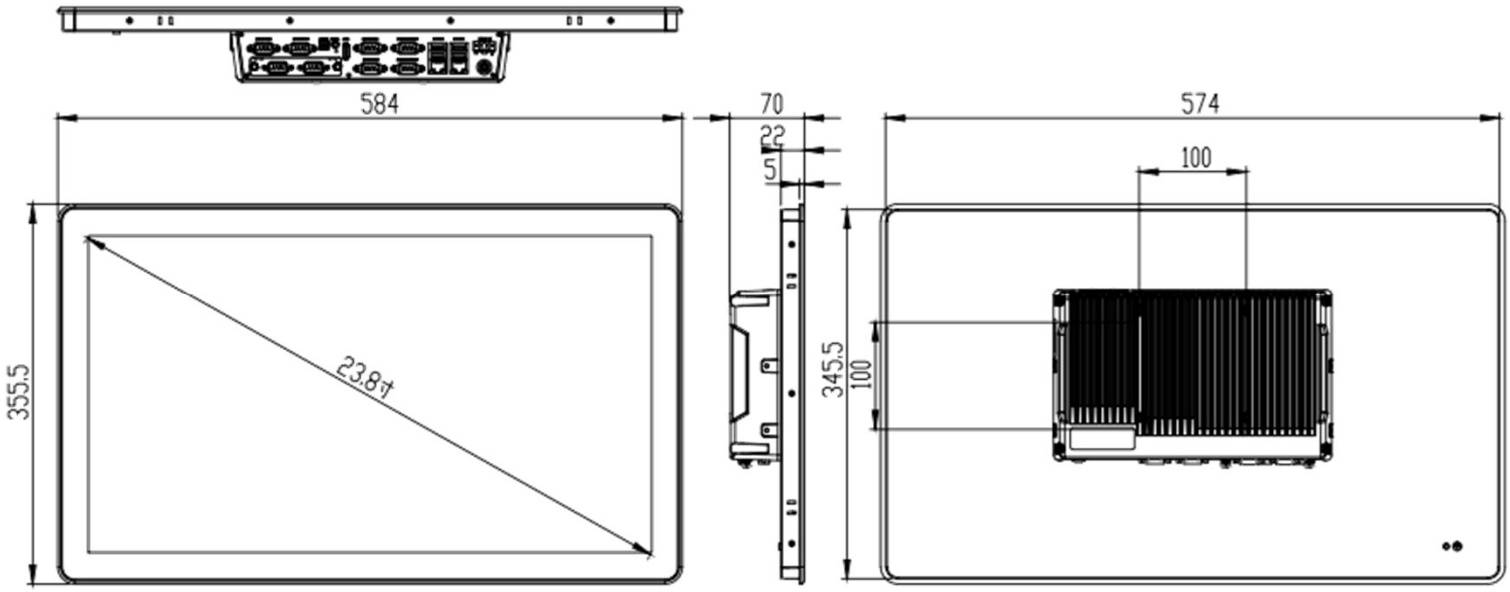
Environment

IP Rating	IP65 Front	Operating Temp.	-20℃ ~ 60℃
MBTF	50000 hrs @ 25°C	Storage Temp.	-30℃ ~ 70℃

Certificate

Certificate	CE and ROHS

Accessory

Accessory	1*12V 5A Adapter, 1*Power Cable, 4*Mount Clamp

Drawings: