

## 27" Marine Panel PC with 10th Gen Intel® Core™ I Processor

### Overview

MP-270 is a fanless 27-inch marine Panel PC, powered by 10th generation Intel® Core™ i5/i7 Processor, used for high-performance computing. It adopts a modular design, which facilitates CPU board or I/O board upgrades and ensures stable system structure and reliable industrial performance. Adopting a large-sized and high specification display screen, a multi-point touch capacitive screen, and optional AG AF treatment on the glass surface, combined with the front panel brightness adjustment knob, it is more suitable for ship applications. The aluminum alloy front panel, metal body, and excellent heat dissipation performance ensure that the electromagnetic compatibility design of the entire machine complies with the ship's electrical specifications.

### Features

- 27" LED-backlit LCD with capacitive touch screen  
Optional AG AF glass surface treatment
- Rugged aluminum enclosure and fanless design
- 10th Gen Intel® Core™ i5/i7 processor
- 3x COM, 4x USB, 4x LAN, 1x HDMI
- DC 9~36V
- Supports VESA 100 mount and panel mount
- Front panel integrated switch, brightness adjustment knob
- IP65 compliant front panel



Operating Temp.



IP65



Touch Display



### I/O Interfaces



## Specifications

<b>Display</b>		
Size	27 inch	
Touch Type	Multi touch capacitive screen	
Display Type	TFT-LCD	
Transmittance	87% (capacitive)	
Control Interface	USB	
Surface Hardness	≥7H	
Resolution	1920 x 1080	
Luminance	300 nits	
Contrast Ratio	1000: 1	
View Angles	89 (left), 89 (right), 89 (up), 89 (down)	
LED Lifetime	40,000 hrs	
Color	16.7M	
<b>System</b>		
CPU	Intel® Core™ i5-10210U (1.6 GHz) quad-core eight-thread processor	Intel Core™ i7-10710U (1.1 GHz) Six Core Twelve Thread Processor
Memory	2x DDR4 2666 SO-DIMM (up to 64GB)	2x DDR4 2666 SO-DIMM (up to 64GB)
Storage	1x 2.5" SATA HDD/SSD (optional) 1x full length Mini PCIe for mSATA SSD	
<b>I/O Ports</b>		
USB	4x USB 3.0	
Serial	3x COM (COM1 supports RS-232, COM2 and COM3 support RS-232/422/485)	
Ethernet	4x GbE LAN	
Display	1x HDMI	
Antenna	2x SMA antenna holes	
<b>Expansion Slot</b>		
Mini PCIe	1x full length Mini PCIe for Wi-Fi 1x full length Mini PCIe for mSATA"	
<b>RF Communication</b>		
Wi-Fi	Mini PCIe expansion (optional)	
Cellular	Mini PCIe expansion (optional)	
Bluetooth	Mini PCIe expansion (optional)	
<b>Audio</b>		
Audio	Mic in, line out	
Speaker	2Ω5W speaker(optional)	
<b>Power</b>		
Button	Yes	
Remote Power On/Off	1x Remote switch connector	
DC Input	9 to 36VDC	
Power Connector	M12	
Power Consumption	29W	32W
Ignition On/Off	1x AC loss	
Power Adaptor	AC-DC, 12V@7.5A, 90W	
<b>Operating System</b>		
Windows	Windows 10, Windows 11	
<b>Mechanical</b>		
Dimensions (W x D x H)	651.8 x 411 x 74.7 mm (25.7 x 16.1 x 2.9 inches)	
Weight (N.W.)	9.8 kg (22 lbs)	
Mounting	Panel mount, wall mount bracket VESA 100	
Material	Aluminum alloy panel, all-metal chassis	

Environment	
Operating Temperature	-10 to 50°C (14 to 122°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Relative Humidity	10% to 95% @ 40°C (104°F), non-condensing
Vibration	5 to 500Hz, 0.026 G <sup>2</sup> /Hz, 2.16 Grms, X, Y, Z, 1 hour per axis
IP Rating	IP65 compliant (for front panel)
Certification	
EMC	CE, FCC
Packing List	
Packing List	1x MP-270 14x panel mounting buckles 1x warranty card

## Dimensions

