



Key features

12,1" LED Panel

≥ 600 cd/m²

1280 x 800 Resolution

88° Viewing angle

Dimming Level 0,1-100%
(Auto / Manual dimming)

10P PCAP MultiTouch
Front glass w/ AR Coating

13th Gen Intel® Core™ Processors
(Core-i7/-i5/-i3)

≥ 64GB DDR5 Memory


2x M.2 SATA/NVME

1x USB-C /2x USB-A (3.2)

1x Isolated RS232/422/485

Ext. Buzzer Connector

IACS E10/IEC60945/DNV TA 

Test according to IEC 62288:2021 

Pending

PPC-120T-RL-0x

12" MARITIME PANEL COMPUTER

The 12" Maritime Panel Computer is a rugged low power multi-touch computer designed and tested for maritime / offshore environments.

The computer is based on the Raptor Lake-P – 13th Gen Intel® Core™ industrial-grade Processors (Up to Intel® Core™ i7-1370PE 14 Cores 4.8GHz)

It has a fanless, minimalistic design with PCAP multi-touch sensor (10 Points recognition).

It also features 4x Ethernet Ports (≥ 2.5GbE), DDR5 Memory (Up to 64GB) / 2x M.2 Storage and TPM 2.0.

The Panel Computer has 24VDC isolated power design and mounting options for Console, VESA or drop-in mount.

Technical specifications

System	
Processor	13th Generation Intel® Core™ I3/I5/I7
Memory	Up to 64GB DDR5 Memory (SO-DIMM 2 memory slots)
Storage	2x M.2 SATA/NVME (2242/2280 size)
Ethernet	LAN chip: 4x Intel i226-IT (1GbE/2.5GbE)

Display	
Panel size	12"
Resolution	1280 x 800
Brightness	Typ. 600 cd/m2 (backlit adjustable)
Dimming	Via buttons, Light Sensor or SW (0,1-100%)
View angle	88° / 88° / 88° / 88°
Touch	PCAP, multi-touch

GPU Specifications* (CPU dependent)	
Intel® Iris® Xe Graphics eligible (Core™ I7-1370PE / Core™ I5-1350PE)	
Intel® UHD Graphics for 13th Gen Intel® Processors (Core™ I3-1320PE)	
Watchdog timer	
Watchdog timeout can be programmed by software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15 % under room temperature 25°C).	

H/W status monitor	
Monitoring system temperature and voltage	

I/O Interface	
Power On-Off button (Rear Side)	
Brightness buttons +/- (Rear side)	
Ethernet: 4x RJ45 (I226-IT)	
USB: 1x USB type C (USB 3.2 Gen 2x2 w/DP Alt mode support) + 2 x USB type A (USB 3.2 Gen 2)	
Serial Port: 1x DB9 (RS-232/422/485 configurable) - Isolated	
Power Inlet: 24VDC 3P terminal block	
Terminal Block 8p: Buzzer out 12V / External Fan (Option)	

Technical specifications

Power requirements	
Power input	Input voltage: 24VDC
	Reverse polarity protection
	Galvanic isolated
	Power consumption: 45W (Typ.) / 80W (Max)

Mechanical & Environmental	
Fanless system design	
Colour	Jet Black RAL 9005 (Powder coating)
IP protection	IP20 (IP65 in front with gasket for console mount.)
Mounting	Flush / Panel mount / VESA 75X75mm* (*: Vesa Mount- Not part of vibration test in type approval)
Shock	IEC 68 2-27 30G @ wall mount, half sine, 11ms IEC 60068-2-27+/-5g 10-15ms 20x in each position
Operating temperature	-10°C to 55°C
Storage temperature	-25°C to 75°C
Operating humidity	10 % - 90 % relative humidity, non-condensing
Dimensions	307.5 x 209 x 65.9 mm
Weight	3.5 kg

Certifications	
CE approval	
FCC Class A	
DNV Type approval - Pending*	
EU RO Mutual Recognition - Pending*	
Tested according to IEC 60945 / IACS E10 - Pending*	

Technical drawings / Images

