Key features

Intel J3455 quad core CPU

4x Gigabit Ethernet

1x PoE+ PD

1x DisplayPort

1x USB-C (w/DP alt. mode)

2x USB3.0

2x Isolated RS232/422/485

Built-in Motion sensor

Built-in TPM

Fanless design

Redundant power (DC+PoE)

DNV Type approval. Tested according to IEC 60945 / IACS E10

Tested according to IEC 62288:2021 (Dark Dimming and presentation)

PPC-120T-AL-0x
12 " MARITIME PANEL COMPUTER

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

The computer is based on a Quad Core Intel Celeron J3455 CPU with low power consumption and has a fanless, minimalistic design with a 12" panel with multi-touch sensor. It also features built-in motion sensor and TPM.

The Panel PC comes with both 24VDC and PoE power input, providing redundant isolated power design, with uninterrupted source switching.

The panel PC can be mounted flush with the console, VESA or drop-in. The front panel complies with IP65 standard and makes it the perfect fit for maritime applications.

data respons
SOLUTIONS

Technical specifications

System	
CPU	Intel Celeron J3455 quad core
BIOS	AMI BIOS
Memory	1x 8GB DDR RAM
Storage	1x M.2 NVMe SSD
Ethernet	LAN chip: 4x Intel i210-IT Gigabit LAN

Display	
Panel size	12"
Resolution	1280 x 800
Colours	262K / 16.7M
Brightness	600 cd/m2
Contrast	1:1000
View angle	88° / 88° / 88° / 88°
Touch	PCAP, multi-touch

Graphics
Intel HD Graphics 500

Watchdog timer
Watchdog timeout can be programmable 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

Motion sensor
Built-in gyro

I/O Interface
Ethernet: 4x RJ45 (one with PoE + PD capabilities)
DisplayPort: 1x DP port
USB: 2x USB3.0 type A, 1x USB3.0 type C (DP alt. mode compatible)
COM: 2x RS232/422/485 (isolated), 2x 5-pin terminal block
Power inlet: 24VDC, 3-pin Phoenix terminal block
Buzzer / Fan: 3Pin connector for optional ext. Fan / Buzzer

Technical specifications

Device
1x NVMe/PCIe M.2 connector

Power requirements	
Power input	Input voltage: 24VDC and/or PoE+ PD (802.3AT) Redundant isolated power with uninterrupted source switching
	Reverse polarity protection
	Galvanic isolated
	Power consumption (Typ./Max): 15W / 30W

Mechanical & Environmental	
Fanless system design	
Colour	Black RAL9005, extruded and painted aluminum housing
IP protection	IP20 (front IP65)
Mounting	Flush, VESA, Drop-in/Panel mount
Vibration	1Grms @ random condition, 5-500Hz, 2hr/axis (operating/non-operating)
Shock	IEC 68 2-27 30G @ wall mount, half sine, 11ms
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 63.9 mm
Weight	3.4 kg

Certifications
CE - Class A
FCC - Class A
DNV Type approval. Tested according to IEC 60945 / IACS E10 Tested according to IEC 62288:2021 (Dark Dimming and presentation)

State: Revision: Released Version 2, 05.05.2022

Technical drawings / Images

BOTTOM VIEW

R15,0(x4)

12"

164,6

209,0 ±0,2

262,5

307,5 ±0,2

FRONT VIEW

16,2

63,9

152,0

48,8

15,1

SIDE VIEW

VESA 75x75
M5▽20 (x4)

M4▽8 (x6)

59,5

198,0

104,5

104,5

180,0

296,5

BACK VIEW

279,0

TOP VIEW

	NAME	DATE	FINISH:		TITLE:		
DRAWN	ES	2022-03-23					
CHECKED	-	-		-	Outline dimensions		
APPROVED	-	-			PPC-120T-AL-0X		
UPDATED	ES	2022-03-25					
			MATERIAL:		DWG NO.:		SIZE:
			-		-		A3
CUSTOMER REF.		-	WEIGHT: -		SCALE:4:9		SHEET 1 OF 1

NOTE:
-

FIRST ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN MILLIMETERS
- TOLERANCES: ISO2768-m
- ISO 16792:2015 CLASSIFICATION CODE 3
- DEBUR AND BREAK SHARP EDGES

STATE: Released   REVISION: A

DO NOT SCALE DRAWING