

Certificate No: **TAA0000338** 

# TYPE APPROVAL CERTIFICATE

This is to certify:		
That the Maritin	me Panel Computer	
with type design	aation(s) lx - Maritime Panel Computer	
Issued to		
Data Resp Høvik, Norw	oons Solutions AS ay	
is found to comp DNV rules for	oly with classification – Ships, offshore un	its, and high speed and light craft
Application	:	
Product(s) app	roved by this certificate is/are acce	epted for installation on all vessels classed by DNV.
Location class Temperature Humidity Vibration EMC Enclosure	es: B* B A B A	
*Tested at -15°	С	
Issued at <b>Høvik</b>	on <b>2022-04-19</b>	
This Certificate is valid until 2027-04-18.  DNV local station: Oslo Maritime and CAP		for <b>DNV</b>
Approval Engine	eer: Martin Skårerverket	
		Trond Sjåvåg
		Head of Section

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



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### **Product description**

PPC-120T-AL-0x panel computer is a low power multi touch computer designed for maritime and offshore environments. The computer is based on the Intel quad core J3455E CPU and supports up to 8GB RAM. It features a 12" screen with multi touch support and built-in motion sensor and TPM. The computer can be powered by 24VDC power supply or PoE.

## Key features:

- 12" Panel with multi touch sensor
- Intel® Celeron J3455 Quad core CPU
- M.2 NVMe SSD
- 8 GB DDR3L RAM
- 4x Gigabit Ethernet ports
- 3 x USB 3.0 ports
- 1 x DisplayPort

Power input: 24VDC or PoE + PD (802.3AT)

Compass safe distance:

Standard: 130cm Steering: 90cm

Tested software: AMI BIOS

## Place of manufacture

Data Respons Solutions AS Industriveien 25 NO-2020 Skedsmokorset Norway

#### **Approval conditions**

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

#### Product certificate

If specified in the Rules, ref. Pt.4 Ch.9 Sec.1, the control and monitoring system in which the above listed hardware is used shall be delivered with a product certificate. For each such delivery the certification test is to be performed at the manufacturer of the application system before the system is shipped to the yard. The test shall be done according to an approved test program. After certification the clause for software control will be put into force.

#### Software control

All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board. Certification of modified functionality may be required for the particular vessel.

# Type Approval documentation

## **Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021.

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## Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

# Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- · Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

**END OF CERTIFICATE** 

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