



# EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:  
**MRA000000N**  
Revision No:  
**1**

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

**Data Respons Solutions AS**  
**Høvik, Norway**

for

**Computers and Programmable Logic Controllers**

with type designation(s)

**Maritime Panel Computers: PPC-080T-BT-01, PPC-120T-BT-01**

The product is found to comply with

**EU RO Mutual Recognition Technical Requirements for Computers and Programmable Logic Controllers**  
**EU RO Mutual Recognition Technical Requirements for Display Monitors, Video Screens, Terminals**

Intended service

**Computers for control, monitoring, alarm, and safety functions subject to classification requirements.**

**System context**

**Application of the control, monitoring, alarm, and safety systems are subject for approval of the individual RO classing the vessel.**

**Temperature [°C]: -15°C to 70°C**  
**Vibration: ±1mm / 0.7g**  
**EMC: All locations including bridge and open deck**  
**IP Code: IP22**

## **This is to certify:**

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2026-05-25**.

Issued at **Høvik** on **2021-09-07**

DNV local station: **Oslo Maritime and CAP**

for **DNV**

Approval Engineer: **Martin Skårerverket**

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**Marta Alonso Pontes**  
**Head of Section**

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.

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.



Form code: MRTA 201

Revision: 2021-03

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## Product description

MARITIME PANEL COMPUTERS:

PPC-080T-BT-01: Panel size: 8" industrial grade panel

PPC-120T-BT-01: Panel size: 12" industrial grade panel

Features:

- Intel® Atom Bay Trail E3845 Quad-Core embedded SoC
- DDR3 memory- 4GB
- PCAP touch screen
- Mini Displayport for external monitor
- 4 gigabit LAN ports
- Internal solid state storage
- 2 USB ports (1xUSB 3.0, 1xUSB 2.0)
- RJ45 output for RS232/422/485
- Flush, VESA or drop-in mounting
- Front IP 65

Power input: 24V DC

Compass safe distances:	Standard	Steering
PPC-080T-BT-01:	70 cm	45 cm
PPC-120T-BT-01:	65 cm	45 cm

Tested firmware versions: AMI Bios 5.010

## Manufactured by

Data Respons Solutions AS  
Industriveien 25  
NO-2020 Skedsmokorset  
Norway

## Application/Limitation

This approval covers hardware only. This excludes firmware, application software, and hardware designed for specific applications subject to classification. Firmware, system software, and application software are subject to additional separate approval, according to UR E22 and the rules of the classing RO (FAT and on-board review / tests).

The unit has touch screen functionality, which is beyond the scope of this approval. The touch screen hardware has been verified, but any use of touch functionality in classed applications needs to be verified through functional testing.

## Type Approval documentation

### Marking of product

Manufacture: Data Respons Solutions AS  
Model number: As listed under product description  
Serial number: Unique for each delivered item  
Power supply: 24V DC

### Other Conditions

The units have been verified for compliance with EU Mutual Recognition Technical Requirements for Computers and programmable logic controllers (PLC) version 0.6, dated 2020-05-01.

EU Mutual Recognition Technical Requirements for "Display Monitors, Video Screens, Terminals" version 0.4, dated 2019-07-01 have additionally been verified.

Applicable tests for protected equipment according to IEC 60945, 4th edition (2002) have additionally been verified; except salt mist test (8.12).

Environmental test parameters:

Temperature: -15°C and 70°C

Vibration: ±1mm / 0.7g

EMC: All locations including bridge and open deck

Enclosure: IP22

### 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 annually and at renewal of this certificate.

### Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).