

EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

This Certificate is issued to

Data Respons Norge 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.

This Certificate is valid until **2021-05-25**.

Issued at **Høvik** on **2016-05-26**

for **DNV GL**

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

Approval Engineer: **Nils Jarem**

Odd Magne Nesvåg
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.

Product description

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	45cm
PPC-120T-BT-01:	65 cm	45cm

Tested firmware versions: AMI Bios 5.010

Manufactured by

Data Respons Norge 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 Norge 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 0.3, dated 2016-04-01.

EU Mutual Recognition Technical Requirements for "Display Monitors, Video Screens, Terminals" version 0.3, dated 2016-04-01 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.

END OF CERTIFICATE