



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

Certificate No:
MRA000004R

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)

Phantom 620xx / CE-ADL-0x

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Computers and Programmable Logic Controllers
IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results

Intended service

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

Temperature [°C]: -25°C and 70°C
Vibration: ±1mm / 0.7g
EMC: All locations including bridge and open deck
IP Code: IP20

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 **2029-06-12**.

Issued at **Høvik** on **2024-06-13**

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

for **DNV**

Approval Engineer: **Martin Skårerverket**

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Frederik Tore Elter
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: 2022-12

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Product description

Phantom-6200M Series – fanless rugged I/O platform PC for maritime use, comprising the following units:

Model/type	Processor
Phantom-6201M	Intel Core I7 CPU
Phantom-6202M	Intel Core I5 CPU
Phantom-6203M	Intel Core I3 CPU

Slot mounted modules:

Module	Manufacturer	Type
Graphic Card PCIe	NVIDIA / PNY	NVidia T400
Graphic Card PCIe	PNY	PNY NVS 5xx
Intel Ethernet Server Adapter	Intel	I350-T4
Intel Ethernet Server Adapter	Intel	I350-T2
SSD 2.5"	Solidigm	Intel SSD D3-S45xx
SSD 2.5"	Adlink	ASD+S2D Series

Compass safe distances:
Standard: 100 cm
Steering: 70 cm

BIOS version tested: 1.03.10.DR04

Manufactured by

Data Respons Solutions AS
Industriveien 25,
N-2020 Skedsmokorset
Norway

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

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).

Other conditions

The units have been verified for compliance with EU Mutual Recognition Technical Requirements for Computers and programmable logic controllers (PLCs) version 0.8, dated 2023-01-01.

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

Environmental test parameters:

Temperature: -25°C and 70°C
Vibration: ±1mm / 0.7g
EMC: All locations including bridge and open deck
Enclosure: IP20

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



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- 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

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).

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)).