



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00003VZ
Revision No:
1

This is to certify:

that the **Peripheral Equipment**

with type designation(s)
Xedge Slim, Xedge Expanded, Xedge 15, Xedge 21

issued to

Exor International S.p.A.
San Giovanni Lupatoto, VR, Italy

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
Xedge Slim	D	B	A	B	A - IP20
Xedge Expanded	D	B	A	B	A - IP20
Xedge 15	D	B	A	B	C - IP66 (front) / IP20 (rear)
Xedge 21	D	B	A	B	C - IP66 (front) / IP20 (rear)

Issued at **Hamburg** on **2026-05-04**

This Certificate is valid until **2031-05-03**.

for **DNV**

DNV local unit: **Italy/Malta CMC**

Approval Engineer: **Holger Jansen**

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 USD 300 000.

Product description

Power supply voltage 24 Vdc

Model name	Description	Standard compass safe distance	Steering compass safe distance
Xedge Slim	Industrial PC, Intel Atom® x6000RE Series Dual or Quad Core up to 1.9 GHZ, DIN mounting <ul style="list-style-type: none"> • 2 USB 3.1 gen.1 • 2 Ethernet 1.0 GbE • 1 Display port 1.2 • 2 Expansion slots for plug-in modules • Operating Temperature -20°C to +60°C • JMobile Runtime (Optional) • Linux or Windows operating system (Optional) 	25 cm	20 cm
Xedge Expanded	Industrial PC, Intel Atom® x6000RE Series Dual or Quad Core up to 1.9 GHZ, Wall mounting (or optionally DIN Mounting) <ul style="list-style-type: none"> • 2 Ethernet 1.0 GbE • 2 Ethernet 2.5 GbE • 2 USB 3.1 gen.1 • 2 USB 2.0 • 2 Display port 1.2 • Operating Temperature -20°C to +55°C • 2 Expansion slots for plug-in modules • Wi-Fi 6E (optional) • JMobile Runtime (Optional) • Linux or Windows operating system (Optional) 	45 cm	35 cm
Xedge 15	15.6" Industrial PC, Intel Atom® x6000RE Series Dual or Quad Core up to 1.9 GHz <ul style="list-style-type: none"> • 15.6" TFT color display, resolution 1920x1080 pixels, 16.7M colors. Dimmable LED backlight • Projected capacitive multitouch screen • Operating Temperature -20°C to +55°C • 2 Display port 1.2 • 2 Ethernet 1.0 GbE • 2 Ethernet 2.5 GbE • 2 USB ports 3.1 gen. 1 • 2 USB ports 2.0 • 2 Expansion slots for plug-in modules • Wi-Fi 6E (optional) • JMobile Runtime (Optional) • Linux or Windows operating system (Optional) 	75 cm	55 cm
Xedge 21	21.5" Industrial PC Intel Atom® x6000RE Series Dual or Quad Core up to 1.9 GHz <ul style="list-style-type: none"> • 21.5" TFT color display, resolution 1920x1080 pixels, 16.7M colors. Dimmable LED backlight • Projected capacitive multitouch screen • Operating Temperature -20°C to +55°C • 2 Display port 1.2 • 2 Ethernet 1.0 GbE • 2 Ethernet 2.5 GbE • 2 USB ports 3.1 gen. 1 • 2 USB ports 2.0 • 2 Expansion slots for plug-in modules • Wi-Fi 6E (optional) • JMobile Runtime (Optional) • Linux or Windows operating system (Optional) 	90 cm	60 cm

Application/Limitation

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 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 the certification the clause for application software control will be put into force.

Clause for application software control

All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed.

Type Approval documentation

Tests carried out

Applicable tests according to DNV Class Guideline CG0339, August 2021.
For the bridge mounted components the 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4th edition (2002).

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number (composed of 20 digits, the third of which must be "0" identifying the authorized production site "Exor International S.p.A. - Via Monte Fiorino 9-13 - IT-37057 San Giovanni Lupatoto (VR) - Italy")
- Power supply ratings
- (Optionally labeled with EXOR or CORVINA Trademark)

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.

Manufactured by:

Exor International S.p.A.
Via Monte Fiorino 9-13
IT-37057 San Giovanni Lupatoto (VR)
Italy

END OF CERTIFICATE