

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

Certificate No:
MRA000002S

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

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

for

Resistive touchscreen panel PC

with type designation(s)

eTOP5507 – eTOP5510 – eTOP5515

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Touch Screen i.e. a Display Monitor or a Video Screen that is also an Input Device

Intended service

Control, Alarm and Monitoring Systems subject to classification

Temperature [°C]: +5°C and +70°C

Vibration: ±1mm / 0.7g

EMC: All locations including bridge, not open deck

IP Code: IP66 (See note next page)

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 **2025-05-21**.

Issued at **Hamburg** on **2020-05-22**

DNV GL local station: **Italy/Malta CMC**

for **DNV GL**

Approval Engineer: **Didier Girardin**

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Joannis Papanuskas
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.4-000181-1**
Certificate No: **MRA000002S**

Product description

eTOP5507 – eTOP5510 – eTOP5515
Resistive touchscreen panel PC with TFT Displays

Type Name	Tech-Note	
eTOP5507 (7")	800x480 pixel (WVGA)	Resistive touchscreen Resolution, 64K Colors CPU: ARM Cortex-A8 - 1 GHz
eTOP5510 (10"4)	800x600 Pixel (SVGA)	2 Ethernet ports 2 USB Host ports
eTOP5515 (15")	1024x768 Pixel (XGA)	1 Serial Port 1 SD Card slot

Note 1: Equipment provides IP66 Ingress Protection according IEC 60529
by technical equivalency to tested equipment eTOP55xx

Power supply ratings:

eTOP5507: 24Vdc 0.35A

eTOP5510: 24Vdc 0.40A

eTOP5515: 24Vdc 0.70A

Compass safe distance:

eTOP5507: Standard 35 cm. Steering 25 cm

eTOP5510: Standard 75 cm. Steering 40 cm

eTOP5515: Standard 135 cm. Steering 85 cm

The safe distance shall be marked on the EUT or recorded as described in cl. 4.5.3 of EN 60945:2002

Manufactured by

Exor International S.p.A.

Type Approval documentation

See Annex

Marking of product

Manufacturer's name: EXOR

Type No.: Model name as listed under product description

Unique serial No.

Year of manufacture: YYYY

(Additionally to the year of manufacture, year and week of production is included in the serial No.)

Power supply ratings: Mains voltage as listed under product description + Mains current

Other Conditions

- The monitors have been verified for compliance with EU Mutual Recognition Technical Requirements version 0.4.
- Found to comply with IACS E10 Rev. 07
- For the bridge mounted components, the "Compass safe distance" were measured according to sections 11.2 of IEC 60945, 4th edition (2002)
- Each delivery to be provided with installation instruction MANETOP55xxU002 V.1.01 19.05.2020 or later approved version
- Environmental test parameters
 - Temperature: 5°C and 70°C
 - Vibration: ±1mm / 0.7g
 - EMC: All locations including bridge, not open deck
 - Enclosure: IP66 (IP ratings according to IEC 60529) ¹⁾

Note 1): See product description

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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

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Certificate No: **MRA000002S**

ANNEX

Manual:	Ref. MANETOP55xx U002	Vers. V.1.01	Issuing date 19.05.2020
Drawings:	DIS5384	Rev: 01	03.12.2019
	DIS5385	Rev: 01	03.12.2019
	DIS5386	Rev: 01	03.12.2019
	DIS5320	Rev: 01	08.11.2019
	DIS5321	Rev: 01	08.11.2019
	DIS5322	Rev: 01	08.11.2019
	DIS5339	Rev: 01	02.10.2019
Test reports	E19273601	Rev.1.0	13.01.2020
	E19274101	Rev.1.0	13.01.2020
	E19274501	Rev.1.0	13.01.2020
	R19243501	Rev.1.0	03.12.2019
	R19243901	Rev.1.0	02.12.2019
	R19244301	Rev.1.0	03.12.2019
	R19279201	Rev.1.0	07.01.2020
	R19279301	Rev.1.0	08.01.2020
	R19279401	Rev.1.0	08.01.2020
	S19273801	Rev.1.0	15.01.2020
	S19274301	Rev.1.0	14.01.2020
	S19274701	Rev.1.0	15.01.2020
	V19247301	Rev.1.0	17.12.2019
	V19249601	Rev.1.0	17.12.2019
	V19252301	Rev.1.0	17.12.2019
	V19252401	Rev.1.0	17.12.2019
	V19256301	Rev.1.0	17.12.2019
	V19256401	Rev.1.0	16.12.2019
	HC60210/2015	July 7, 2015	07.07.2015
	E20077601	Rev.1.0	08.05.2020
	R20077201	Rev.1.0	11.05.2020
	R20077401	Rev.1.0	11.05.2020
	R20077501	Rev.1.0	11.05.2020
DOC	IP66	Email with attachment: Dimension-Cut out MANETOP55xxU002 V.1.01 19.05.2020	20.05.2020 19.05.2020