Certificate no.:
TAA00003EF

TYPE APPROVAL CERTIFICATE

This is to certify:

that the 460 Network Components

with type designation(s)
MG460 Gateway

issued to
Guangzhou Robustel Co., Ltd.
Guangzhou, **China**

is found to comply with
IMO Res. A.694(17) General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids
IEC 61162-460 Ed. 3.0 (2024-04) Maritime Navigation and radiocommunication equipment and systems – Digital interfaces – Part 460: Multiple talkers and multiple listeners – Ethernet interconnection – Safety and security

Application:

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Issued at **Høvik** on **2024-05-14**
This Certificate is valid until **2029-05-13**.
DNV local unit: **China South NB**

for **DNV**

Approval Engineer: **Frederik Tore Elter**

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.

Product description

The MG460 Gateway provides a means to transfer data securely between a “uncontrolled network” and a secure IEC 61162-460 network, MG460 functioning as a “460-Gateway” and “Wireless-Gateway”.
The Secure Maritime Gateway includes a DMZ with a shared network drive for secure transfer of files between the networks, as well as capabilities for Direct Connection and Wireless Gateway (Wi-Fi/Cellular) functions.

The MG460 Gateway comprises:

- Hardware: MG460 Gateway Version V1.3.x
- Software: Firmware Version V2.1.x with operating system Debian GNU/Linux 11.x

Application/Limitation

The MG460 Gateway:

- is to be installed/commissioned in accordance with manufactures documentation
- complies with the requirements of IEC 60945 (2002) for protected equipment.
- shall be set up in accordance with manufacturer document MG460 User Guide and MG460 Security Guide for IEC 61162-460 compliant installations
- may be provided with the following IEC 61162-460 (2024) functionality:
  - DMZ Storage
  - Direct connection
  - Wireless gateway
- cyber secure compliance is depending on installation and setup, hence approval of installation is to be performed as applicable for the vessel installation.
- provides indication of direct connections via LED indicator and raising of caution via serial NMEA

Type Approval documentation

DNV No.	Document No.	Rev.	Title
40	DNV01	V1.1	Report: MG460 IEC61162-460 Compliance Test Report
30	DNV04	1.2	MG460 Security Guide
29	DNV03	1.1	MG460 User Guide
28	DNV02	1.0	MG460 Datasheet
21	LTC-R-7074-EMC (DNV06)	B0	Report: IEC 60945 EMC Robustel MG460 Maritime Cyber Security Gateway
19	DNV02	1.0	Datasheet: Robustel MG460 Maritime Cyber Security Gateway A Maritime Gateway compliance to IEC61162-460 Cyber Security Standards
18	DNV07	0	IEC 60945 MG460 Corrosion Waiver
16	GJW2023-5168-1 (DNV05)	v1.0	Report: IEC 60945 Environmental MG460 Maritime Cyber Security Gateway

Tests carried out

- Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)
- Security testing: IEC 61162-460 (2024) for 460-Gateway and 460-Wireless Gateway
- Interface testing: IEC 61162-1 (2016), IEC 61162-2 (1996), (for electrical interface tests)

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.

Periodical assessment

Periodical assessment is to be performed annually. Additionally, a renewal assessment is to be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com.