



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00002GN
Revision No:
1

This is to certify:

That the Network and Communication Components

with type designation(s)
Industrial Gigabit Switch Lynx 5512/5612

Issued to

Westermo Network Technologies AB
STORA SUNDBY, Sweden

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:

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	A

Issued at **Høvik** on **2023-03-21**

for **DNV**

This Certificate is valid until **2025-01-20**.

DNV local unit: **Sweden CMC**

Approval Engineer: **Ståle Sneen**

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.



Product description

Westermo Industrial Gigabit Switch Lynx 5512/5612, comprising the following articles:

Art. No.	Type Designation	Description
3643-0300	Lynx-5512-F4G-T8G-LV	8x Ethernet TX + 4x SFP for Ethernet FX
3643-0305	Lynx-5512-E-F4G-T8G-LV	8x Ethernet TX + 4x SFP for Ethernet FX
3643-0310	Lynx 5512-F4G-T8G-LV-CC	8x Ethernet TX + 4x SFP for Ethernet FX (w/Conformal Coating)
3643-0315	Lynx 5512-E-F4G-T8G-LV-CC	8x Ethernet TX + 4x SFP for Ethernet FX (w/Conformal Coating)
3643-0400	Lynx-5612-F4G-T8G-LV	8x Ethernet TX + 4x SFP for Ethernet FX
3643-0405	Lynx-5612-E-F4G-T8G-LV	8x Ethernet TX + 4x SFP for Ethernet FX

Lynx 5512/5612 support OSI layer 3 (network layer).

LV models are approved for nominal voltage: 24-48 VDC

Dielectric strength – signal to other isolated ports: 1.5 kVAC
 Dielectric strength – power to other isolated ports: 1.5 kVAC

Hardware revision: 1.0

Approval conditions

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 classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Data sheet: Lynx 5512_2211_EN Rev. K,
 Lynx 5612_2204_EN Rev. F.
User guide: 6643-25001 Rev. F,
 6643-25002 Rev. F.
Drawing: 3643-0300-UD-04 Rev. 04,
 3643-0400-UD-01 Rev. 01.
Test reports: 619-20028-10-R0, dated 2019-06-12,
 119-22706-1, dated 2019-07-04,
 622-20162-10-R0, dated 2022-11-03.

TA initial assessment report for Westermo Network Technologies AB, DNV GL Sweden CMC 2019-11-08.

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.
 Extended temperature testing, 16 hours operational at -40°C and +74°C.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

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.

END OF CERTIFICATE