Certificate no.:
TAA00003C9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Network and Communication Components

with type designation(s)
Ethernet switch, series: JetNet 3905, JetNet 5908G, JetNet5912G, JetNet 5916G

issued to
Beijer Electronics AB
Malmö, Skåne Län, 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	**B**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**A**

Issued at **Hamburg** on **2023-11-14**
This Certificate is valid until **2028-11-13**.
DNV local unit: **Kaohsiung**

for **DNV**

Approval Engineer: **Dariusz Lesniewski**

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

Industrial ethernet switch, series: JetNet3905G, JetNet5908G, JetNet5912G, JetNet5916G

Series	Model	Function	Total ports	RJ-45 ports	Fiber ports	RJ-45/SFP Combo ports
JetNet3905G	JetNet3905	Unmanaged	5	5x100M		
	JetNet3905f-m	Unmanaged	5	4x100M	1xSC (2 km)	
	JetNet3905f-s	Unmanaged	5	4x100M	1xSC (30 km)	
JetNet5908G	JetNet5908G	L2	8	8x1G		
	JetNet5908G-2F	L2	8	6x1G	2xSFP	
JetNet5912G	JetNet5912G-2C2F	L2	12	8x1G	2xSFP	2
JetNet5916G	JetNet5916G-4C4F	L2	16	8x1G	4xSFP	4

Power supply: 24VDC
Installation: DIN-Rail Mounting
Degree of protection. IP30

Firmware version: none for JetNet 3905 series
2.1.0 for others.
Hardware version: 1.0 for all models.

Place of production

Beijer Electronics Corp.
1F, 501-15, Zhongzhen Rd.,
Xindian Dist., 231 New Taipei City
Taiwan Region

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.

Application/Limitation

Capability for network overload or network storm handling are not verified.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

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