



Certificate no.:
TAA00003M9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Network and Communication Components**

with type designation(s)
Cisco IE-3100 Ethernet switch series

issued to

Cisco Systems, Inc.
San Jose, CA, USA

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	A*
Vibration	A
EMC	A
Enclosure	Required protection according to DNV Rules shall be provided upon installation on board

*** Approved for Class B; labeled as Class A per manufacturer's request.**

Issued at **Høvik** on **2025-05-20**

This Certificate is valid until **2030-05-19**.

for **DNV**

DNV local unit: **Certification & Inspection Services**

Approval Engineer: **Nikolai Arntzen**

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

Cisco IE-3100 Ethernet switch series:

IE-3105-18T2C-E	ETH switch, advanced, 18x 1G copper ports, 2x 1G SFP ports
IE-3100-18T2C-E	ETH switch, basic, 18x 1G copper ports, 2x 1G SFP ports
IE-3100-18T2C-CC-E	ETH switch, basic, 18x 1G copper ports, 2x 1G SFP ports
IE-3105-8T2C-E	ETH switch, advanced, 8x 1G copper ports, 2x 1G SFP ports
IE-3100-8T2C-E	ETH switch, basic, 8x 1G copper ports, 2x 1G SFP ports
IE-3100-8T4S-E	ETH switch, basic, 8x 1G SFP ports, 2x 1G combo (SFP/copper) ports
IE-3100-4T2S-E	ETH switch, basic, 4x 1G ports, 2x 1G SFP ports
IE-3100-8P2C-E	ETH switch, basic, 8x 1G PoE ports, 2x 1G combo (SFP/copper) ports
IE-3100-4P2S-E	ETH switch, basic, 4x 1G PoE ports, 2x 1G SFP ports
IE-3100-8T4S-E++	ETH switch, basic, 8x 1G SFP ports, 2x 1G combo (SFP/copper) ports
IE-3100-8P2C-E++	ETH switch, basic, 8x 1G PoE ports, 2x 1G combo (SFP/copper) port
IE-3105-18T2C-E++	ETH switch, advanced, 18x 1G copper ports, 2x 1G SFP ports

The units are classed and approved for 48 V DC supply voltage.

Manufactured by

Flextronics Mfg (Zhuhai) Co Ltd

Xin Qing Science & Technology Industrial Park
Doumen, Jing An
Zhuhai
Guangdong 519180 China

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 Ships Pt.4 Ch.9 Control and Monitoring Systems

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-Certificate issued by a notified/recognized Certification Body.

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.