DNV·GL

Certificate No:
TAA000021N

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Peripheral Equipment

with type designation(s)
Managed and unmanaged Ethernet Switches:
EDS-205A series, EDS-600 series,
IKS-6324 series, IKS-6500 series, IKS-6726 series,
PM-7200 series, SFP Series and CM-600 series

Issued to
Moxa Inc.
New Taipei City, Taiwan

is found to comply with
DNV GL 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 GL.

Location classes:

Temperature	**D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to DNV GL Rules shall be provided upon installation on board**

Issued at **Høvik** on **2018-10-10**
This Certificate is valid until **2023-12-31**.
DNV GL local station: **Kaohsiung**

for **DNV GL**

Approval Engineer: **Nils Jarem**

Odd Magne Nesvåg
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.

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Product description

The units are classed and approved for the range 100 to 240 V AC supply at 50/60 Hz and 12, 24, and 48 V DC. The approved units are listed below:

Unmanaged Ethernet Switches

EDS-205A series
EDS-205A
EDS-205A-M-SC
EDS-205A-M-ST
EDS-205A-S-SC
EDS-205A-T
EDS-205A-M-SC-T
EDS-205A-M-ST-T
EDS-205A-S-SC-T

IKS-6324 series
IKS-6324-F-LV-T
IKS-6324-F-HV-T

Managed Ethernet Switches

IKS-6500 series
IKS-6524-F-HV-T
IKS-6524-F-HV-HV-T
IKS-6524-8SFP-F-HV-T
IKS-6524-8SFP-F-HV-HV-T
IKS-6526-2GTXSFP-F-HV-T
IKS-6526-2GTXSFP-F-HV-HV-T

IKS-6726 series
IKS-6726-F-24-T
IKS-6726-F-24-24-T
IKS-6726-F-24-48-T
IKS-6726-F-24-HV-T
IKS-6726-F-48-T
IKS-6726-F-48-48-T
IKS-6726-F-48-HV-T
IKS-6726-F-HV-T
IKS-6726-F-HV-HV-T

Modular Ethernet Switches

EDS-600 series
EDS-608
EDS-608-T
EDS-611
EDS-611-T
EDS-616
EDS-616-T
EDS-619
EDS-619-T

CM-600 series
CM-600-4TX
CM-600-4MSC
CM-600-4SSC
CM-600-4MST
CM-600-2MSC/2TX
CM-600-2SSC/2TX
CM-600-2MST/2TX
CM-600-3MSC/1TX
CM-600-3SSC/1TX
CM-600-3MST/1TX

PM-7200 series
PM-7200-2MSC
PM-7200-2MST
PM-7200-2SSC
PM-7200-1MSC
PM-7200-1MST
PM-7200-1SSC
PM-7200-2GTXSFP
PM-7200-8TX
PM-7200-6MSC
PM-7200-6MST
PM-7200-6SSC
PM-7200-4MSC2TX
PM-7200-4MST2TX
PM-7200-4SSC2TX
PM-7200-2MSC4TX
PM-7200-2MST4TX
PM-7200-2SSC4TX
PM-7200-1LSC6TX
PM-7200-8SFP
SFP-1FESLC-T
SFP-1FEMLC-T
SFP-1GLXLC

Compass safe distance

Series	1 degree deflection	0.3 degree deflection
EDS-600	500 mm	600 mm
EDS-205A	300 mm	400 mm
IKS-6324	800 mm	900 mm
IKS-6500	800 mm	900 mm
IKS-6726	800 mm	900 mm

Place of manufacture

Moxa Inc.
Fl. 8, No. 135, Lane 235, Pao-Chiao Rd.
Shing Tien City, Taipei, Taiwan

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.
Applicable tests for protected equipment according to IEC 60945, 4th edition (2002), except for test 8.12 Corrosion and test 12.1 Protection against accidental access to dangerous voltages.

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