

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Peripheral Equipment**

with type designation(s)

Ethernet Switches and Video Servers: EDS series, SPL series, SFP series, and VPort 351 series

Issued to

Moxa Inc.**New Taipei City, Taiwan**

is found to comply with

DNV GL rules for classification – Ships and offshore units**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 the Rules to be provided upon installation on board

This Certificate is valid until **2017-12-31**.Issued at **Høvik** on **2015-11-10**DNV GL local station: **Kaohsiung**Approval Engineer: **Andrzej Gdaniec**for **DNV GL**

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.

Product description

The units are classed and approved for 12V to 48V DC supply voltage.
The approved units are listed below:

Managed Ethernet Switches

EDS-828/728 series

EDS-82810G
EDS-72810G
IM-4TX
IM-4MSC
IM-4MST
IM-4SSC
IM-2MSC/2TX
IM-2MST/2TX
IM-2SSC/2TX
IM-1LSC/3TX
IM-2GTx
IM-2GSFP

EDS-G509 series

EDS-G509
EDS-G509-T

EDS-P510 series

EDS-P510
EDS-P510-T

SFP-1G series

SFP-1GSXLC
SFP-1GLSXLC
SFP-1GLXLC
SFP-1GLHXLC
SFP-1GZXLC
SFP-1GEZXLC
SFP-1GSXLC-T
SFP-1GLSXLC-T
SFP-1GLXLC-T
SFP-1GLHXLC-T
SFP-1GZXLC-T
SFP-1G10ALC
SFP-1G10BLC
SFP-1G20ALC
SFP-1G20BLC
SFP-1G40ALC
SFP-1G40BLC
SFP-1G10ALC-T
SFP-1G10BLC-T
SFP-1G20ALC-T
SFP-1G20BLC-T
SFP-1G40ALC-T
SFP-1G40BLC-T

EDS-408A series

EDS-408A-3M-SC
EDS-408A-3M-ST
EDS-408A-2M1S-SC
EDS-408A-2M1S-ST
EDS-408A-3S-SC
EDS-408A-3S-ST
EDS-408A-1M2S-SC
EDS-408A-1M2S-ST
EDS-408A-3M-SC-T
EDS-408A-3M-ST-T
EDS-408A-2M1S-SC-T
EDS-408A-2M1S-ST-T
EDS-408A-3S-SC-T
EDS-408A-3S-ST-T
EDS-408A-1M2S-SC-T
EDS-408A-1M2S-ST

Video server

VPort 351 series

Vport 351
Vport 351-M-SC
Vport 351-S-SC
Vport 351-T
Vport 351M-SC-T
Vport 351S-SC-T

Unmanaged Ethernet Switches

EDS-200A Series

EDS-208A
EDS-208A-M-SC
EDS-208A-M-ST
EDS-208A-S-SC
EDS-208A-MM-SC
EDS-208A-MM-ST
EDS-208A-SS-SC
EDS-205A
EDS-208A-T
EDS-208A-M-SC-T
EDS-208A-M-ST-T
EDS-208A-S-SC-T
EDS-208A-MM-SC-T
EDS-208A-MM-ST-T
EDS-208A-SS-SC-T
EDS-205A-T

EDS-P308 series

EDS-P308
EDS-P308-M-SC
EDS-P308-S-SC
EDS-P308-MM-SC
EDS-P308-SS-SC
EDS-P308T
EDS-P308-M-SC-T
EDS-P308-S-SC-T
EDS-P308-MM-SC-T
EDS-P308-SS-SC-T

EDS-305 series

ESD-305-M12
EDS-305-M12-T

EDS-G308 series

EDS-G308
EDS-G308-2SFP
EDS-G308-T
EDS-G308-2SFP-T

EDS-G205 series

EDS-G205
EDS-G205-T

SPL-24 Series

SPL-24
SPL-24-T

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Certificate No: **TAA000006N**

Optional Accessory

SFP-1FE series

SFP-1FEMLC-T

SFP-1FESLC-T

SFP-1FELLC-T

Compass safe distance

Steering	Standard
600 mm	700 mm

Place of manufacture

Fl.4, No. 135. Lane 235, Baoqiao Rd.,
Xindian Dist., New Taipei City, Taiwan

Application/Limitation

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 DNV Standard for Certification No. 2.4, April 2006.

Applicable tests for protected equipment according to IEC 60945, 4th edition (2002), except for tests 8.12 Corrosion and 12.1. Protection against accidental access to dangerous voltages.

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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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE