



Certificate No:
TAA0000347

TYPE APPROVAL CERTIFICATE

This is to certify:

That the **Stratix 5800 Ethernet switch series**

with type designation(s)
1783-MMSx, 1783-MMXx

Issued to

Rockwell Automation
Mayfield Heights, OH, 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.

Temperature **D**

Humidity **B**

Vibration **A**

EMC **A**

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

Issued at **Hamburg** on **2022-02-14**

This Certificate is valid until **2027-02-13**.

for **DNV**

DNV local station: **Long Beach**

Approval Engineer: **Didier Girardin**

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Joannis Papanuskas
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.



Form code: TA 251

Revision: 2021-03

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Product description

Stratix 5800 High Performance Managed Switch delivering high-speed Gigabit Ethernet connectivity in a compact form and modular.

Rugged Ethernet Switches

Model ¹⁾	Voltage	Max Amps
1783-MMS10	12-48Vdc	4.0A
1783-MMS10A	12-48Vdc	4.4A
1783-MMS10AR	12-48Vdc	4.4A
1783-MMS10B	12-48Vdc	2.2A
1783-MMS10BE	12-54Vdc	5.5A
1783-MMS10E	12-54Vdc	10.6A
1783-MMS10EA	12-54Vdc	10.7A
1783-MMS10EAR	12-54Vdc	10.7A
1783-MMS10ER	12-54Vdc	10.6A
1783-MMS10R	12-48Vdc	4.0A

Expansion Module Model ¹⁾

1783-MMX14T2S
1783-MMX16E
1783-MMX16T
1783-MMX6T2S
1783-MMX8E
1783-MMX8EA
1783-MMX8S
1783-MMX8SA
1783-MMX8T
1783-MMX8TA

¹⁾ Note: Nomenclature:

MMS	New switch platform
MMX	Expansion modules
E	PoE
B	Fixed base (not modular)
A	Advanced IE features
R	Layer 3 IP services FW
T	Copper ports Gigabit Ethernet
S	SFP slots Gigabit Ethernet

Place of Production

SHENZHEN FUGUI PRECISION INDUSTRY CO LTD

F8D DISTRICT

FOXCONN SCIENCE & TECHNOLOGY INDUSTRIAL PARK

EAST SIDE OF MIN QING RD LONGHUA ST LONGHUA DISTRICT SHENZHEN, GUANGDONG, 518109

CHINA

Application/Limitation

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.

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.

Equipment to be installed with DNV type approved AC/DC regulated power supply. The output voltage must be between 50-57Vdc if PoE (Power Over Ethernet) operation is required.

Each delivery to be provided with installation instruction or later approved version including safe distance to compass and communication cable shielded type

Compass safe distance

	Front	Back	Other
Steering:	500 mm	500 mm	500 mm
Standard:	500 mm	500 mm	500 mm

Type Approval documentation

Hidden

Tests carried out

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

Compass safe distance according to section 11.2 of IEC 60945 4th edition (2002).

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number

clearly marked with the minimum safe distance at which it may be mounted from Standard and/or Steering compass

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