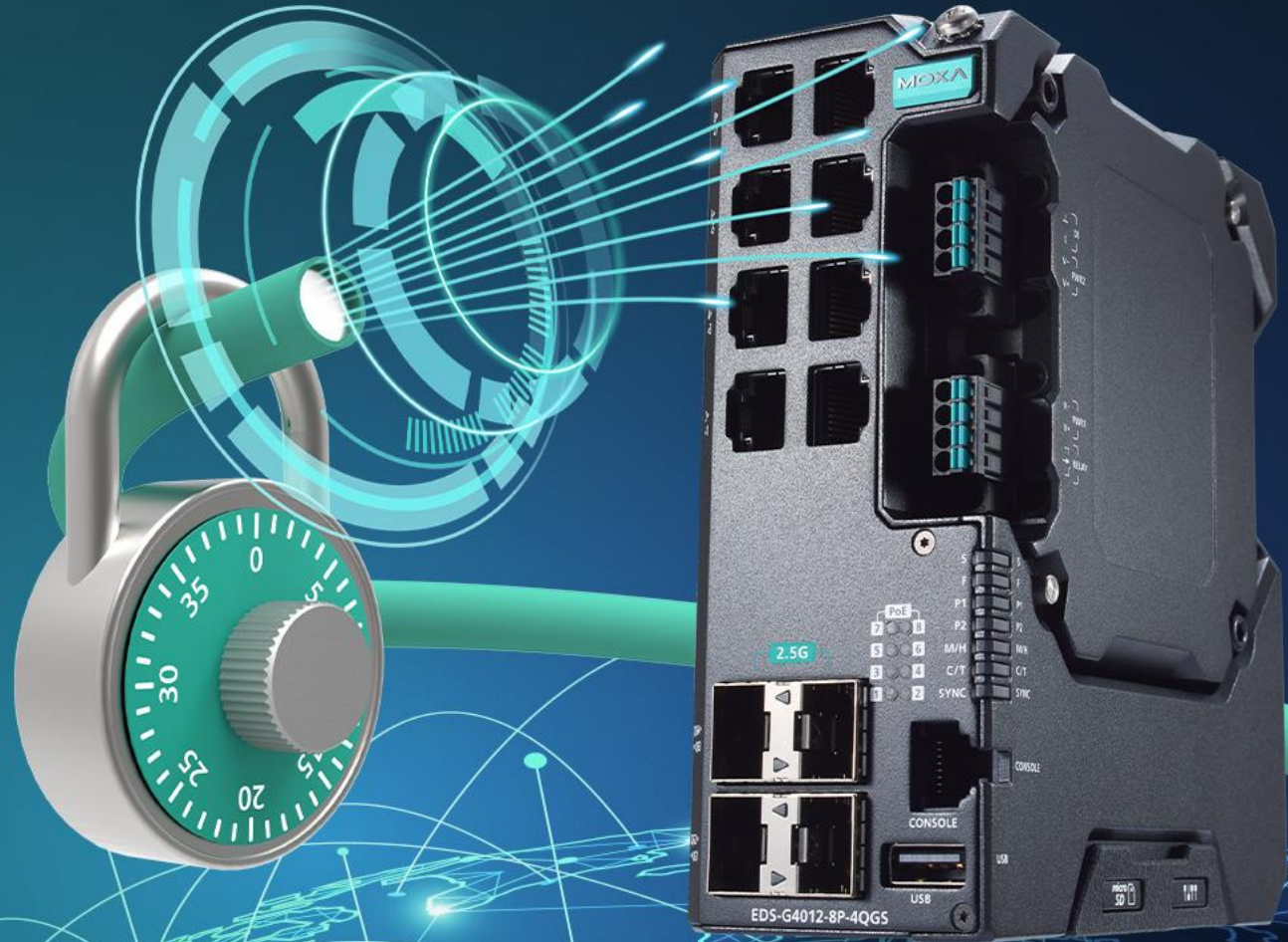


EDS-G4000: Introduction

Networking Evolved Strengthened Resilience



Product Line Positioning

*EDS-500A series are under maintenance mode with no major updates.

** More features will be available in future MX-NOS releases.

Entry

Essential Features for
Industrial Automation

Standard

Optimized Features for
General Usage

Elite

Future-proof Features for
Critical Control Systems

EDS-400A Series



EDS-500A Series*



EDS-(G)500E Series



PT-500 Series



EDS-(G)4000 Series

- Fast Ethernet
- VM Certifications
- Industrial Protocols
- Network Redundancy
- Basic Management: VLAN, QoS, SNMP

- High Port Density
- Gigabit Bandwidth with PoE+
- Higher level EMC Protection

- Enhanced Security Features: .1X, ACL, MAB, RADIUS....
- IEC 62443-4-2 SL1

- Gigabit + 2.5G Uplink
- 802.3bt PoE up to 90W
- IEC 61850 / IEEE 1613
- Dying Gasp Power
- IEEE1588 PTP
- Advanced security features**
- IEC 62443-4-2 SL2

SECURE & FUTURE PROOF



Security

The World's 1st Networking Devices Certified by IEC 62443

Reliability & Performance

Industry Leading High Bandwidth and 90 Watts PoE

Usability

Best-in-class OT-centric Design for Simplified Management

EDS-G4000 Series

1st IEC-62443-2 SL2 certified switch



Designed to meet the requirements of

- Marine bridge and automation systems
- Power substations and other 61850 applications
- Discrete & Process Automation
- ITS market

Secure by Design

- IEC 62443-4-2 SL-2 certified
- New MX-NOS Operating System supports various security functions

Reliable and High Performing

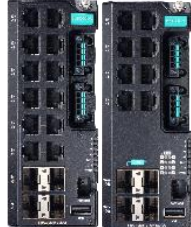
- Up to **six 2.5G Gigabit uplink** ports allow for up to 5G fiber links
- PoE (af/at/bt) with up to **90W per port**
- Certified for harsh environments, wide temperature -40 to 75°C

OT-centric Design and Usability

- Versatile family with 68 models from 8 to 14 ports
- Simplified management with **intuitive user interface** and improved diagnostic methods
- **Flexible power module selections** (LV/HV, **Dying Gasp***, Isolation, PoE booster option)
- **Rotatable and exchangeable power module**, optional front cabling

EDS-4000/G4000 Series Overview

Model Configuration of EDS-4000/G4000 Series



EDS-4008 Series

[FE models]

EDS-4008-LV
EDS-4008-LV-T
EDS-4008-HV
EDS-4008-HV-T
EDS-4008-2MSC-LV
EDS-4008-2MSC-LV-T
EDS-4008-2MSC-HV
EDS-4008-2MSC-HV-T
EDS-4008-2MST-LV
EDS-4008-2MST-LV-T
EDS-4008-2MST-HV
EDS-4008-2MST-HV-T
EDS-4008-2SSC-LV
EDS-4008-2SSC-LV-T
EDS-4008-2SSC-HV
EDS-4008-2SSC-HV-T

[FE+GE models]

EDS-4008-2GT-2GS-LV
EDS-4008-2GT-2GS-LV-T
EDS-4008-2GT-2GS-HV
EDS-4008-2GT-2GS-HV-T

[PoE models]

EDS-4008-4P-2GT-2GS-LVA
EDS-4008-4P-2GT-2GS-LVA-T
EDS-4008-4P-2GT-2GS-LVB
EDS-4008-4P-2GT-2GS-LVB-T

EDS-4009 Series

EDS-4009-3MSC-LV
EDS-4009-3MSC-LV-T
EDS-4009-3MSC-HV
EDS-4009-3MSC-HV-T
EDS-4009-3MST-LV
EDS-4009-3MST-LV-T
EDS-4009-3MST-HV
EDS-4009-3MST-HV-T
EDS-4009-3SSC-LV
EDS-4009-3SSC-LV-T
EDS-4009-3SSC-HV
EDS-4009-3SSC-HV-T

EDS-4012 Series

[FE+GE models]

EDS-4012-4GS-LV
EDS-4012-4GS-LV-T
EDS-4012-4GS-HV
EDS-4012-4GS-HV-T

EDS-4012-4GC-LV
EDS-4012-4GC-LV-T
EDS-4012-4GC-HV
EDS-4012-4GC-HV-T

[PoE models]

EDS-4012-8P-4GS-LVA
EDS-4012-8P-4GS-LVA-T
EDS-4012-8P-4GS-LVB
EDS-4012-8P-4GS-LVB-T

EDS-4014 Series

EDS-4014-4GS-2QGS-LV
EDS-4014-4GS-2QGS-LV-T
EDS-4014-4GS-2QGS-HV
EDS-4014-4GS-2QGS-HV-T



EDS-G4008 Series

EDS-G4008-LV
EDS-G4008-LV-T
EDS-G4008-HV
EDS-G4008-HV-T

EDS-G4012 Series

[GE models]

EDS-G4012-4GC-LV
EDS-G4012-4GC-LV-T
EDS-G4012-4GC-HV
EDS-G4012-4GC-HV-T

[PoE Models]

EDS-G4012-8P-4QGS-LVA
EDS-G4012-8P-4QGS-LVA-T
EDS-G4012-8P-4QGS-LVB
EDS-G4012-8P-4QGS-LVB-T

EDS-G4014 Series

EDS-G4014-6QGS-LV
EDS-G4014-6QGS-LV-T
EDS-G4014-6QGS-HV
EDS-G4014-6QGS-HV-T

**7 Series from 8 to 14 ports
68 models with up to six 2.5G SFP slots**

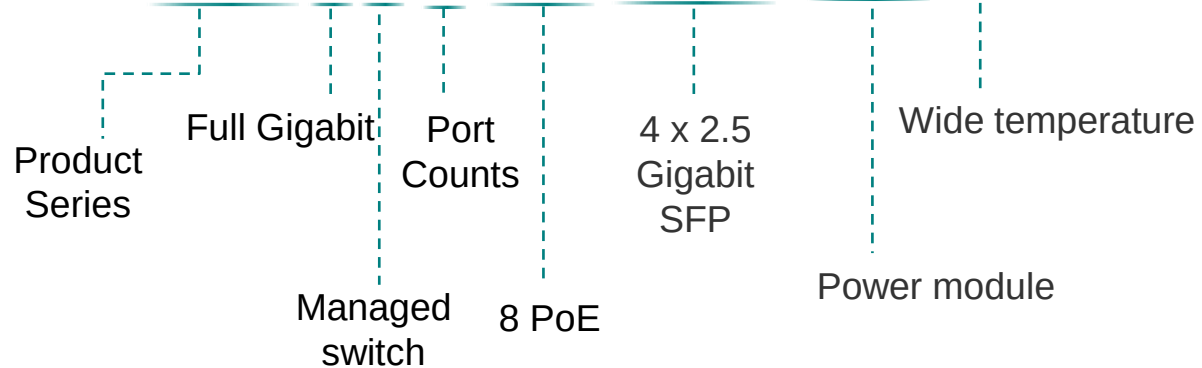
Note:

- HV: 110/220 VDC/VAC
- LV: 12/24/48 VDC

Product Naming Rules



EDS – G4012 – 8P – 4QGS – LVA – T



Model Name Abbreviations

P	PoE
SSC/MSC	Single/Multi-mode, SC
SST/MST	Single/Multi-mode, ST
SLC/MLC	Single/Multi-mode, LC
GT	Gigabit TX
GS	Gigabit SFP
GC	Gigabit Combo
QGS	2.5 Gigabit SFP
HV	110/220 VDC/VAC (88 to 300 VDC, 85 to 264 VAC)
LV	12/24/48 VDC (9.6 to 60 VDC)
LVA	48 VDC bypass power for 240 watts PoE
LVB	12/24/48 VDC voltage boost for 60/120/180 watts PoE
T	Wide temperature: -40°C to 75°C

SFP Module Naming Rule

SFP Models (Optional Accessory)



1. Series

2.5G 2.5 Gigabit Ethernet
1G Gigabit Ethernet
1FE Fast Ethernet

2. Interface

2.5GE		GE				FE	
MLC SLC LSLC SLHLC	2.5GBaseFX, Multi-mode, 550m 2.5GBaseFX, Single-mode, 5km 2.5GBaseFX, Single-mode, 20km 2.5GBaseFX, Single-mode, 40km	SXLC LSXLC LXLC LHLC LHXLC ZXLC	1000BaseSX LC, 0.5km 1000BaseLSX LC, 2km 1000BaseLX LC, 10km 1000BaseLH LC, 30km 1000BaseLHX LC, 40km 1000BaseZX LC, 80km	EZXLC EZXLC-120 10A/10BLC 20A/20BLC 40A/40BLC	1000BaseEZXC LC, 110km 1000BaseEZXC LC, 120km 1000Base WDM-type LC, 10km 1000Base WDM-type LC, 20km 1000Base WDM-type LC, 40km	MLC SLC LLC	100BaseFX Multi-mode LC, 4km 100BaseFX Single-mode LC, 40km 100BaseFX Single-mode LC, 80km

3. Temperature

N/A Standard temperature
T Wide temperature

Secure Devices Safeguard Critical Applications

The World's 1st Networking Devices Certified by IEC 62443



Secure by Design IEC 62443-4-1

Products that meet the requirements of security development lifecycle can be trusted now and into the future



Secure by Function IEC 62443-4-2

Technical Security Requirements for Industrial Automation and Control Systems (IACS)



Certified by IECEE 62443 Security Body

Recognized in more than 70 countries, the scheme has been established for more than 30 years

High Performance Enables Futureproof Networks

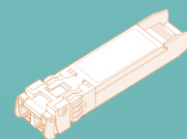
Power Up The New Era

- 90 Watts IEEE 802.3bt PoE ports
- Compatible with IEEE 802.3af/at PoE/PoE+ devices
- Smart PoE delivers data and power safely



Higher Bandwidth on Demand

- Up to 6 ports 2.5 GbE for flexible network topology

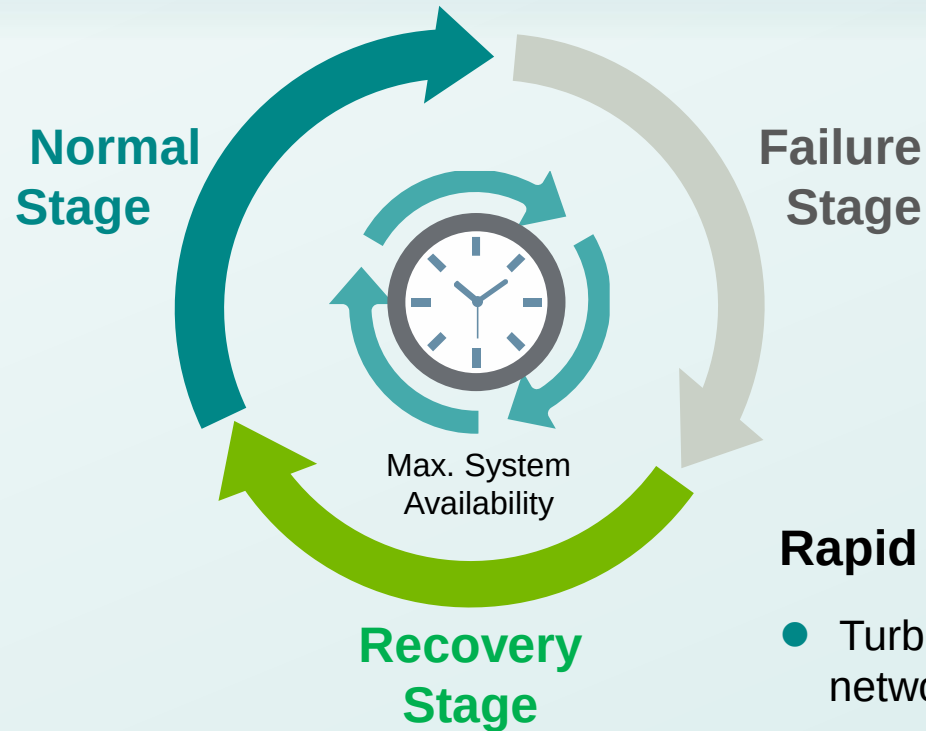


Reliable Designs Maximize System Availability

System Lifecycle

Robust Design

- Proven reliability with high MTBF values
- Stringent tests during design and production phases
- Certified by various industry standards



Failover Redundancy

- Redundant dual power inputs eliminate power outage downtime
- Network redundancy protects single point of failure

Rapid Recovery

- Turbo Ring / Chain offers sub-50 ms network recovery times
- Modular power design reduces repair downtime

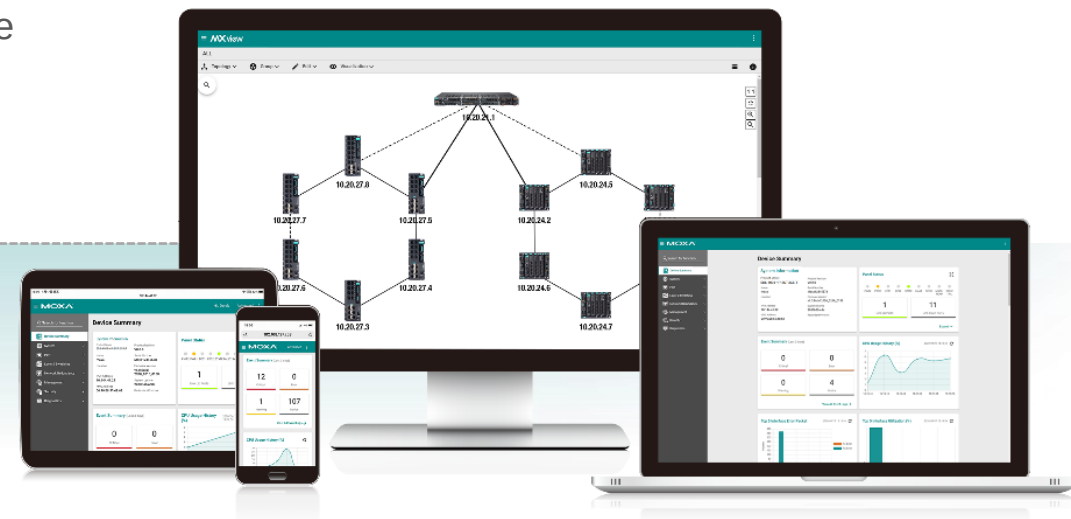
Simplified Management and Maintenance



- MX-NOS is Moxa's secure network operating system with comprehensive management features
- Intuitive HTML5-based web UI for consistent cross-device usability



- MXview network management software is designed for configuring, monitoring, and diagnosing networking devices
- The EDS-4000/G4000 Series is well suited for centralized device visibility and continuous monitoring

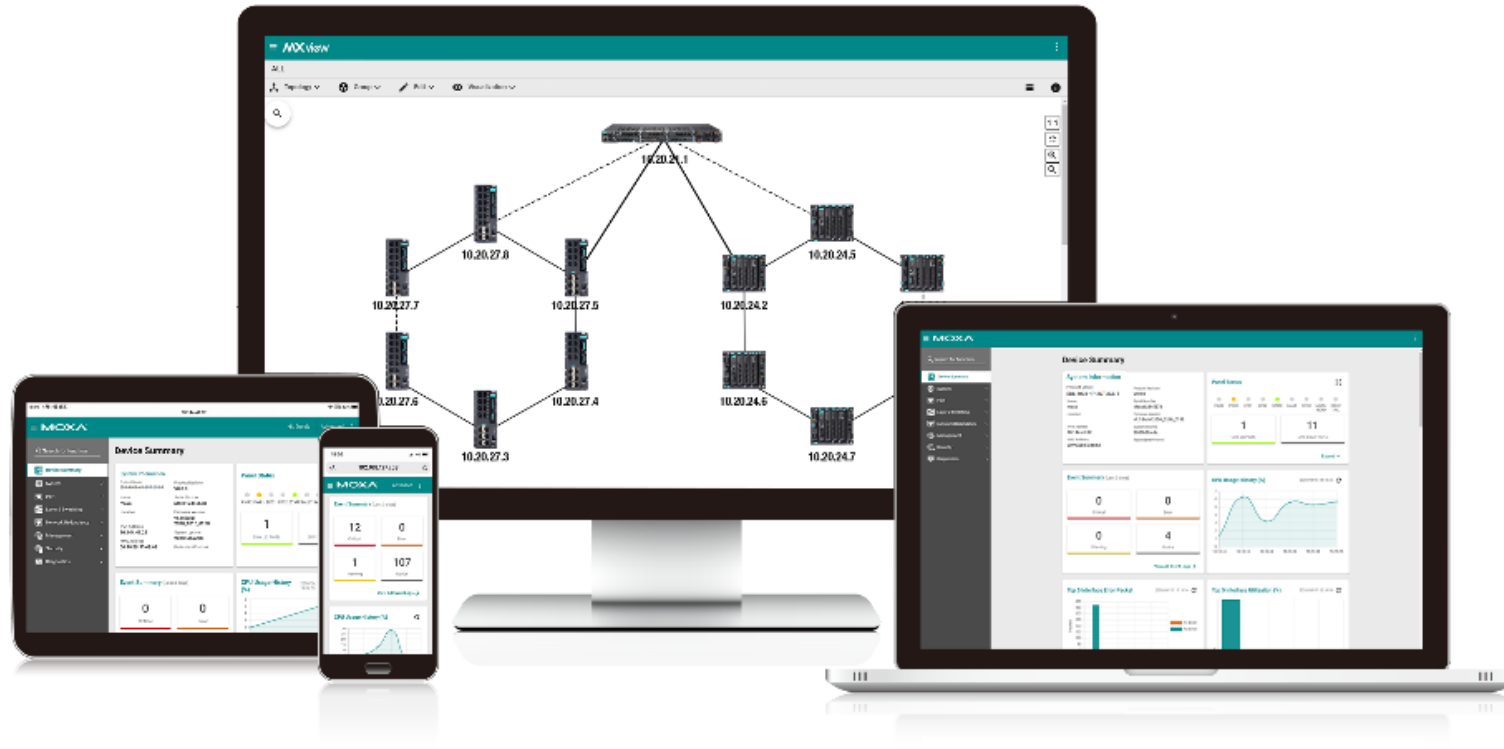


EDS-G4000 Firmware V2.0 Feature Gaps

(Compared to EDS-G500E Firmware V6.0)

Categories	Features	MX-NOS Release Plan
Security	Access control list (ACL)	V3.0
	MAC authentication bypass (MAB)	V3.0
	Loop prevention	V3.0
Redundancy	MSTP	V3.0
	Turbo Ring v1	Phased out
	V-ON	Phased out
Management	Industrial Protocols (EIP / PN / Modbus)	V4.0
	DHCP Option 66/67/82	V4.0
	ABC-02 backup	V3.0
Diagnosis	Fiber Check	V4.0
	Ping tracking	TBD

Estimated schedule for EDS-G4000 firmware release
V3.0: est. Q1 2023 / V4.0: est. Q1 2024



“For EDS-G4000 series, we particularly appreciated the intuitive user interface, the innovative mechanical design with the rotatable power supply module, and the robust DIN-rail mounting kit.”

Christopher Stein, Cyber Security Expert of Wärtsilä Lyngsø Marine A/S

Customer Testimonial



“ EDS-G4000 Series gives us more confidence to provide futureproof, robust, and secure industrial automation and navigation solutions to our customers on their digital transformation journeys.”

Cyber Security Expert of Wärtsilä Lyngsø Marine A/S,
Christopher Stein

Customer Testimonial



“ EDS-G4000 performs reliably in Kongsberg Maritime’s Ethernet networking tests, including a tough cyber security evaluation. ”

Espen Kvernmo, Lead Engineer of Kongsberg Maritime AS

