



Industrial Ethernet Switches

Product Selection Guide

2018/2019



INDUSTRIAL NETWORKING FEATURES



- Wide range to fully equip various vertical markets
- Switches support up to 24 PoE/PoE+ ports
- Advanced features on Layer-2 or Layer-3
- Basic to Advanced Unmanaged Switches
- 10Gb Fiber Backbone connectivity
- Extensive range of Ruggedized Managed switches
 - Profinet CC-B v2.33 & EIP certified
 - DIN-Rail, Rack-mount Modular & IP67-rated designs
 - Market-specific certification
 - Wide temperature ranges

Product	Industrial Ethernet Switches		
Vertical Market	Power Substation IEC61850-3	Transportation and ITS	Factory Automation, Smart Cities
Configurability	Managed	Managed	Unmanaged
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Smart Grid and Substation Automation

Industrial Networking Solutions for the Power Industry

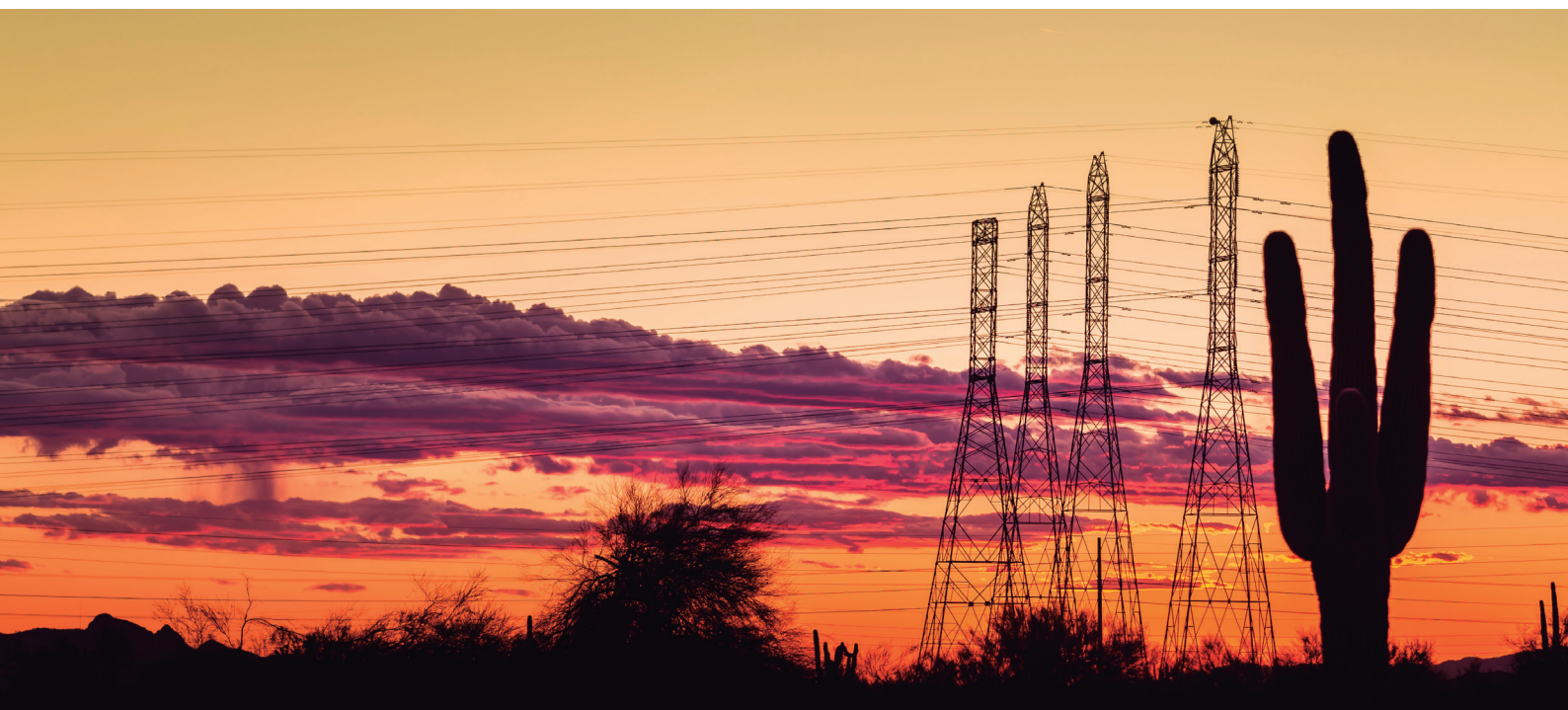
Over the decades, various utility communication protocols have been developed to manage power grid networks and their components such as control centers, RTUs, and IEDs. Due to which different standards are adopted and used abundantly around the world. Distributed Network Protocol (DNP 3), principally in North America has emerged to achieve open, standards based interconnectivity between substation computers, remote terminal units, intelligent electronic devices and master stations for the electric utility industry. On the other hand, Europe has relied mainly on IEC 60870-5 101/103/104 to send/receive values with time stamps, and use other commands, while much of the world used Modbus protocol, designed for data exchange of one-bit binary registers or 16-bit registers.

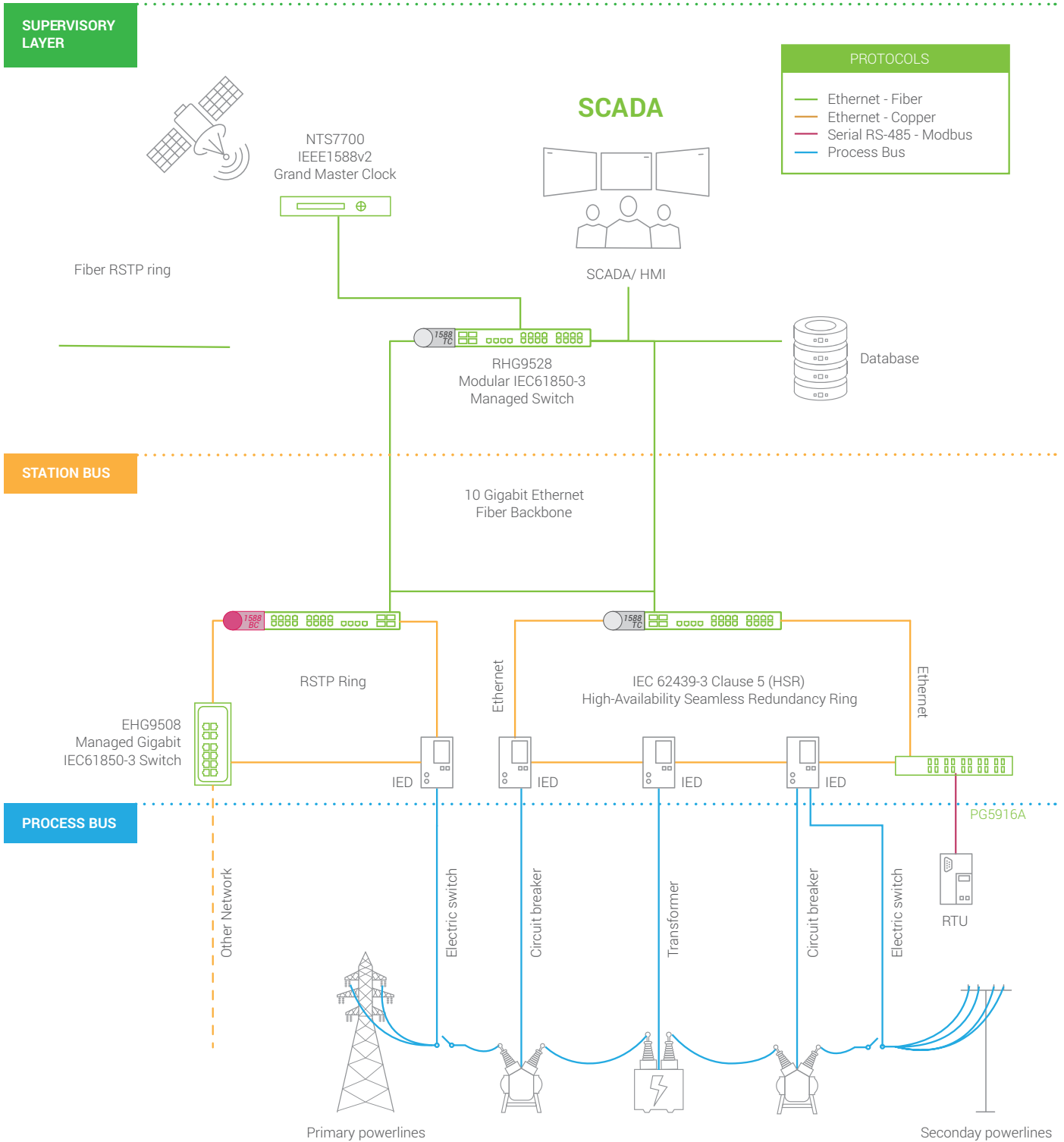
Thousands of manufacturers across the globe are using their own device of communications across wide spectrum of protocols. With many protocols, substations can't communicate with each other with regards to power transmission and distribution. With IEC 61850, developed to provide a standard defining communication protocol for electrical substations and power grid automation it enables integration of all protection, control, measurement and monitoring functions. By specializing its domain knowledge in electrical power grid systems, IEC 61850 works as an object-oriented protocol that uses a data modeling scheme to clearly describe each component of a power grid or substation as standard logical nodes — such as object processes, protection, control, and functionality.

This specialization enables data access to the power grid system to yield more details. To further improve reliability and performance, IEC 61850 Part 3 also specifies the hardware and network suitability requirements — such as electromagnetic immunity (EMI), surge protection, vibration and shock resistance, and the temperature range in which devices must be able to function. **ATOP's switches comply with these specifications.**

IEC 61850-3 Device Compliancy Specifications require the device to:

- a. Operate in a temperature range from -40°C to 85°C.
- b. Be capable of reliably handling long distance transmissions through Fiber optic connectivity.
- c. Guarantee QoS (Quality of Service) management and real-time packet switching for GOOSE event messages.
- d. Guarantees a level of redundancy that minimizes packet loss. Ring topologies should be supported, and zero-packet-loss technologies such as HSR (High availability Seamlessly Redundancy) or PRP (Parallel Redundancy Protocol) are strongly recommended to be supported. ATOP's devices support RSTP (Rapid Spanning-Tree Protocol) and ERPS rings. When equipped with HSR/PRP modules, our innovative RHG9528 switch can guarantee no loss of GOOSE packets.
- e. Have a wide tolerance for vibrations and shocks. ATOP's MIL-STD-810F device fully complies.
- f. Have tough electromagnetic immunity and comply with emission standards.
- g. Have at least Level 3 EMC protection; have at least Level 4 ESD, EFT and Surge protection; and have at least Level 5 PFMF and Damped Oscillatory Magnetic Field immunity.





IEC61850-3 Certified Managed Switches

	DIN-Rail Mount				Rack-mount, Modular	
General Information			Coming soon	Coming soon	Coming soon	Coming soon
Model Number	EHG9508-2SFP	EHG9512-4SFP	EHG9508P	EHG9512P	RHG9528-CPU-X	RHG9528-CPU-X-BS-Y
Modular Design						
Gigabit Copper Module	N/A	N/A	N/A	N/A	Yes	Yes
Gigabit Fiber Module	N/A	N/A	N/A	N/A	Yes	Yes
Number of ports						
Total number of ports	8	12	8 (Max)	12 (Max)	28 (Max)	28 (Max)
10 Gigabit Ethernet SFP	-	-	-	-	4 (Max)	4 (Max)
Gigabit Ethernet	8	12	8 (Max)	12 (Max)	28 (Max)	28 (Max)
10/100/1000BaseT(X)	6	8	8 (Max)	12 (Max)	24 (Max)	24 (Max)
100/1000Base-X SFP	-	-	4 (Max)	8 (Max)	24 (Max)	24 (Max)
1000Base-X SFP	2	4	-	-	28 (Max)	28 (Max)
1PPS output BNC	-	-	-	1	-	1
Power Supply input						
24~57 VDC	Yes	Yes	Yes	Yes	Yes	Yes
110~220 VAC	Yes	Yes	-	-	-	-
100~370 VDC	Yes	Yes	-	-	-	-
24~120 VDC, 90~280VDC, 85~264VAC	-	-	Yes	Yes	Yes	Yes
Installation Options						
DIN-Rail Mount	Yes	Yes	Yes	Yes	-	-
19" Rack Mount	-	-	-	-	Yes	Yes
Field Mount	Optional	Optional	Optional	Optional	-	-
Ingress Protection	IP30	IP30	IP30	IP30	IP30	IP30
Supported Temperatures						
Operations Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy						
STP/RSTP/MSTP	Yes	Yes			Yes	Yes
HSR/PRP	-	-			Yes (with Module)	Yes (with Module)
ITU-T G.8032 ERPS Ring	Yes	Yes			Yes	Yes
MRP (Client)	Yes	Yes			Yes	Yes
Precision Timing						
IEEE1588v2 Hardware-based E2E TC	Yes	Yes	Yes	Yes	Yes	Yes
IEEE1588v2 Hardware-based BC/full TC	-	-	Yes	Yes	-	Yes
IEEE1588v2 Software-based BC	Yes	Yes	-	-	Yes	-
Synchronous Ethernet (SyncE)	-	-	Yes	Yes	-	Optional
Management						
SNMPv1/v2c/v3	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet/IP	Yes	Yes	Yes	Yes	Yes	Yes
Modbus TCP	Yes	Yes	Yes	Yes	Yes	Yes
Profinet CC-B	-	-	-	-	-	-
IEEE802.1ad LACP Port Trunking	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1p QoS	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1q VLAN	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1x for Authentication	Yes	Yes	Yes	Yes	Yes	Yes
IGMPv1/v2/v3/ IGMP Snooping	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 66/67/82	Yes	Yes	Yes	Yes	Yes	Yes
IPv4/IPv6	Yes	Yes	Yes	Yes	Yes	Yes
ACLs	Yes	Yes	Yes	Yes	Yes	Yes
GARP, GVRP, GMRP	Yes	Yes	Yes	Yes	Yes	Yes
Relay Output	Yes	Yes	Yes	Yes	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	Optional	Optional
Compliance						
UL60950-1 and/or UL62368-1	-	-	-	-	Yes	Yes
EN60950-1 and/or EN62368-1	-	-	Yes	Yes	Yes	Yes
UL61010-2-201	Yes	Yes	Yes	Yes	-	-
IEC61850-3 / IEEE1613	Yes	Yes	Yes	Yes	Yes	Yes
DNV.GL (Former KEMA)	-	-	-	-	Yes	-
EN50155/ EN50121-4	-	-	-	-	-	-

...more information and
datasheets available on
www.atoponline.com





Railway and Traffic Control Made Easy

Industrial Networking for Railway transportation

Defining certain criteria that network devices must comply with when installed on trains include environmental, shock, power supply, vibration, power supply, humidity, electromagnetic interference, wide temperature range, EMC, power surge, electrostatic discharge (ESD) and transient factors.

EN 50155 is recognized internationally as a standard for covering electronic equipment in railway applications.

Complying with EN50155 and with the essential sections of **EN50121-4** for ground equipment, ATOP's railway-certified switches are powerful industrial ethernet switches with advanced features that are encased in robust and reliable housing, making them highly suitable for use in signal control networks and on-board applications.

Selected products are **NEMA TS-2 certified**, allowing them to be used in the most demanding of traffic control applications.

Mechanical requirements

• Rolling stock

- Vibration: Category < 0.3 Kg
- Frequency range: 5 – 150 Hz
- Acceleration: 5g
- Shock (half sinus): Long/ Trans. /Vert Axis - Peak acceleration: 5g/2g/1g
- Duration: 50 ms / 20 ms / 20 ms

• Ground equipment N/A

Temperature Requirements

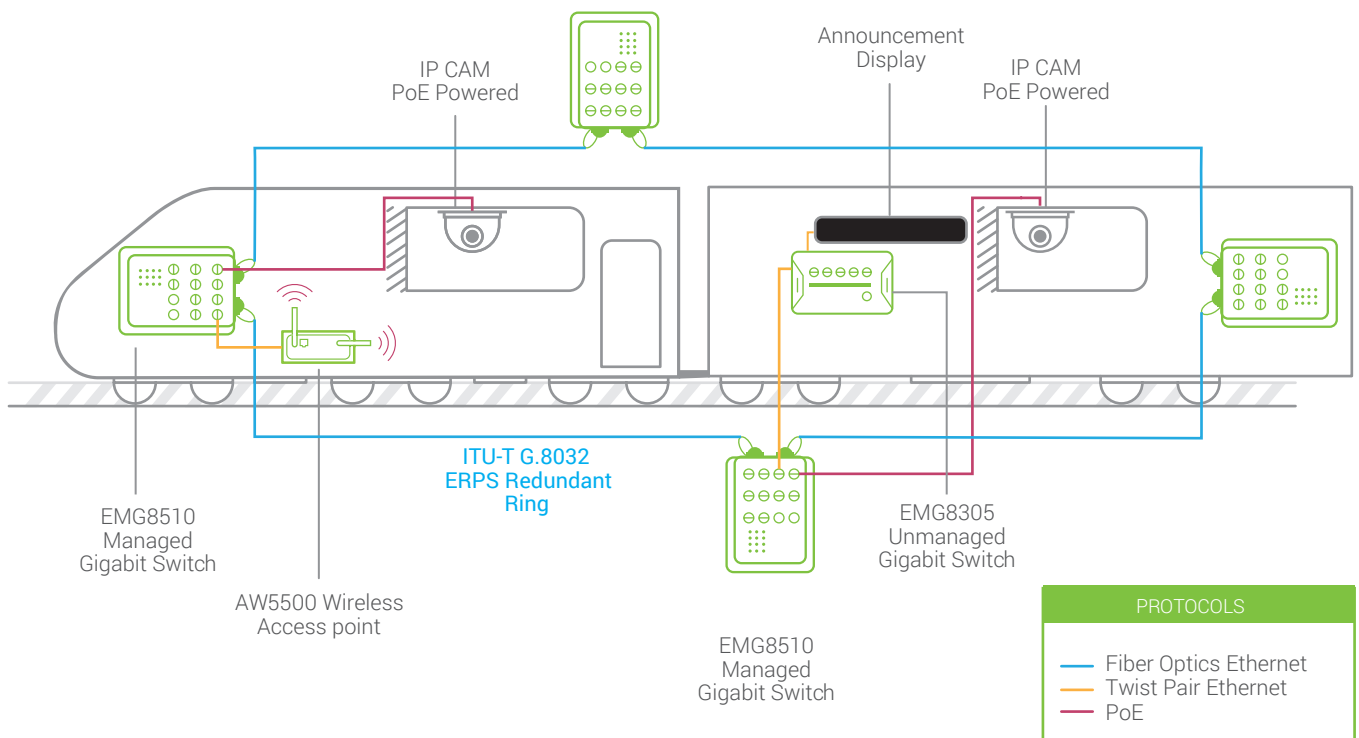
Category	Internal cabinet temperature range	Ambient board temperature range	GAIA converter modules temperature range
T1	-25/55 °C	-25/70 °C	Industrial line: -40/71 °C ambient
T2	-40/55 °C	-40/70 °C	Industrial line: -40/71 °C ambient
T3	-25/70 °C	-25/85 °C	Hi-rel line: -40/85 °C ambient
T4	-40/70 °C	-40/85 °C	Hi-rel line: -40/85 °C ambient

Humidity EN50155 2 x 25h 40

Electromagnetic compatibility

- CE; FCC
- 24 VDC: 500 Veff/ 50 Hz/ 1 min
- 48 VDC: 500 Veff/ 50 Hz/ 1 min
- 72~125 VDC : 1,000 Veff/ 50 Hz/ 1 min
- 125~315 V: 1,500 Veff/ 50 Hz/ 1 min
- For other details refer to EN50155









Possible topologies



Transportation Switches

	Unmanaged Switches					Managed Layer-2 Switch		
General Information								
Model Number	EH7310-X	EHG7305	EHG7306	EHG7307	EMG8305	EH7506	EH7508	EH7512
Number of ports								
Total number of ports	10	5	6	7	5	6	8	12
Fast Ethernet 10/100 BaseT(X)	8	-	-	-	-	4	4	8
Gigabit 10/100/1000 BaseT(X)	(2)	5	5	5	5 (M12)	-	4 - combo	4 - combo
Gigabit 1000Base-X SFP	(2)	-	-	-	-	-	-	-
Gigabit 100/1000Base-X SFP	-	-	1	2	-	2	4 - combo	4 - combo
PoE/PoE+ ports	-	Max 4	Max 4	Max 4	-	Max 4	Max 4	Max 8
Power Supply input								
9~57 VDC (PoE requires min 45 VDC)	-	-	-	-	-	Dual	Dual	Dual
18~30 VDC	-	-	-	-	-	-	-	-
12~48 VDC	Dual	-	-	-	Dual	Dual	Dual	Dual
12~57 VDC (PoE requires min 45 VDC)	-	Dual	Dual	Dual	-	Dual	Dual	Dual
High Voltage (AC/DC)	-	-	-	-	-	-	-	-
Relay Output	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes
Installation Options								
DIN-Rail Mount	Yes	Yes	Yes	Yes	Optional	Yes	Yes	Yes
19" Rack Mount	-	-	-	-	-	-	-	-
Field Mount	Optional	Optional	Optional	Optional	Yes	Optional	Optional	Optional
Ingress Protection	IP30	IP30	IP30	IP30	IP67	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	-40~75° C	-40~70° C	-40~70° C	-40~70° C	-40~75° C	-20~70° C	-20~70° C	-20~70° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	-	-	-	-	-	Yes	Yes	Yes
ITU-T G.8032 ERPS Ring	-	-	-	-	-	Yes	Yes	Yes
MRP (Client)	-	-	-	-	-	Yes	Yes	Yes
Precision Timing								
IEEE1588v2 Hardware-based E2E TC	-	-	-	-	-	Yes	Yes	Yes
IEEE1588v2 Software-based BC	-	-	-	-	-	Yes	Yes	Yes
Synchronous Ethernet (SyncE)	-	-	-	-	-	-	-	-
Management								
SNMPv1/v2c/v3	-	-	-	-	-	Yes	Yes	Yes
Ethernet/IP	-	-	-	-	-	Yes	Yes	Yes
Modbus TCP	-	-	-	-	-	Yes	Yes	Yes
Profinet CC-B	-	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)	Certified	Certified	Certified
IEEE802.1ad LACP Port Trunking	-	-	-	-	-	Yes	Yes	Yes
IEEE802.1p QoS	-	-	-	-	-	Yes	Yes	Yes
IEEE802.1q VLAN	-	-	-	-	-	Yes	Yes	Yes
IEEE802.1x for Authentication	-	-	-	-	-	Yes	Yes	Yes
IGMPv1/v2/v3/ IGMP Snooping	-	-	-	-	-	Yes	Yes	Yes
DHCP Option 66/67/82	-	-	-	-	-	Yes	Yes	Yes
IPv4/IPv6	-	-	-	-	-	Yes	Yes	Yes
ACLs	-	-	-	-	-	Yes	Yes	Yes
GARP, GVRP, GMRP	-	-	-	-	-	Yes	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	-	-	-
Mechanical								
Housing	Metal	Metal	Metal	Metal	Aluminum	Metal	Metal	Metal
Dimensions (mm)	53 x 146 x 120	32 x 90 x 110	45 x 90 x 110	45 x 90 x 110	106 x 196 x 48	60 x 138 x 164	60 x 138 x 164	60 x 138 x 164
Compliance								
UL60950-1 and/or UL62368-1	Yes	-	-	-	-	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	Yes	Yes	Yes	Yes	-	-	-
IEC61850-3 / IEEE1613	-	-	-	-	-	-	-	-
DNV.GL (Former KEMA)	-	-	-	-	-	-	-	-
Atex Zone 2 - UL C1D2	-	Yes	Yes	Yes	-	-	-	-
NEMA TS2	-	-	-	-	-	Yes	Yes	Yes
EN50155/ EN50121-4	Yes	Yes	Yes	Yes	Yes	-	-	-

Transportation Switches

	Managed Gigabit Layer-2 Switch					Managed Layer-3 Switch		
								
General Information								
Model Number	EHG7504	EHG7508	RHG7528	EMG8508	EMG8510	EHG7604	EHG7608	RHG7628
Number of ports								
Total number of ports	4	8	28 (Max)	8	10	4	8	28 (Max)
Fast Ethernet 10/100 BaseT(X)	-	-	-	-	-	-	-	-
Gigabit 10/100/1000 BaseT(X)	Max 4	Max 8	24 (Max)	8 (M12)	8 (M12)	Max 4	Max 8	24 (Max)
Gigabit 1000Base-X SFP	Max 4	Max 4	4 or 4x10G	-	2	Max 4	Max 4	4 or 4x10G
Gigabit 100/1000Base-X SFP	-	-	24 (Max)	-	-	-	-	24 (Max)
PoE/PoE+ ports	Max 4	Max 8	24 (Max)	Max 8	Max 8	Max 4	Max 8	24 (Max)
Power Supply input								
9~57 VDC (PoE requires min 45 VDC)	Dual	Dual	-	-	-	Dual	Dual	-
18~30 VDC	-	-	-	-	-	-	-	-
12~48 VDC	Dual	Dual	-	(Dual)	(Dual)	Dual	Dual	-
12~57 VDC (PoE requires min 45 VDC)	Dual	Dual	(Dual)	(Dual)	(Dual)	Dual	Dual	(Dual)
High Voltage (AC/DC)	-	-	(2x 88~264 VAC)	(2x 50~145 VDC)	(2x 50~145 VDC)	-	-	(2x 88~264 VAC)
Relay Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation Options								
DIN-Rail Mount	Yes	Yes	-	Optional	Optional	Yes	Yes	-
19" Rack Mount	-	-	Yes	-	-	-	-	Yes
Field Mount	Option	Optional	-	Yes	Yes	Option	Option	-
Ingress Protection	IP30	IP30	IP30	IP67	IP67	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	-20~70° C	-20~70° C	-40~70° C	-40~75° C	-40~75° C	-20~70° C	-20~70° C	-40~70° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ITU-T G.8032 ERPS Ring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MRP (Client)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Precision Timing								
IEEE1588v2 Hardware-based E2E TC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE1588v2 Software-based BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Synchronous Ethernet (SyncE)	-	-	-	-	-	-	-	-
Management								
SNMPv1/v2c/v3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet/IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modbus TCP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Profinet CC-B	Certified	Certified	-	-	-	-	-	-
IEEE802.1ad LACP Port Trunking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1p QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1q VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1x for Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMPv1/v2/v3/ IGMP Snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 66/67/82	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPv4/IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACLs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GARP, GVRP, GMRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	Yes	Yes	Yes
Mechanical								
Housing	Metal	Metal	Metal	Aluminum	Aluminum	Metal	Metal	Metal
Dimensions (mm)	54 x 113 x 145	54 x 113 x 145	440 x 44 x 340	216 x 232 x 72	216 x 232 x 72	54 x 113 x 145	54 x 113 x 145	440 x 44 x 340
Compliance								
UL60950-1 and/or UL62368-1	Yes	Yes	Yes	-	-	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	-	-	Yes	Yes	-	-	-
IEC61850-3 / IEEE1613	-	-	-	-	-	-	-	-
DNV.GL (Former KEMA)	-	-	-	-	-	-	-	-
Atex Zone 2 - UL C1D2	-	-	-	-	-	-	-	-
NEMA TS2	Yes	Yes	-	-	-	Yes	Yes	-
EN50155/ EN50121-4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ATOP's Industrial Networking Products

Entry Level

ATOP's entry level din-rail mount Unmanaged Switches offer a reliable, robust and cost-effective solution for simple network topologies offering features such as PoE connectivity and performance in harsh environments. IP30-rated, all of them are certified for Industrial EMC (**EN61000-6-4 and EN61000-6-2**). They are built with either industrial plastic, steel or aluminium housing to suit different application environments for industrial environments, such as in hazardous locations that comply with FCC, TUV, UL, and CE standards. They operate in temperatures ranging from -10°C to 70°C, with units with plastic housing supporting an operating range of 0°C to 60°C. For enhanced safety and backup, redundant power supplies are featured on every model. Our products feature 4 to 8 Fast Ethernet or Gigabit Ethernet ports. Selected versions have single-mode or multi-mode Fiber optic uplink, and selected versions feature Power over Ethernet (PoE) and Gigabit speeds.

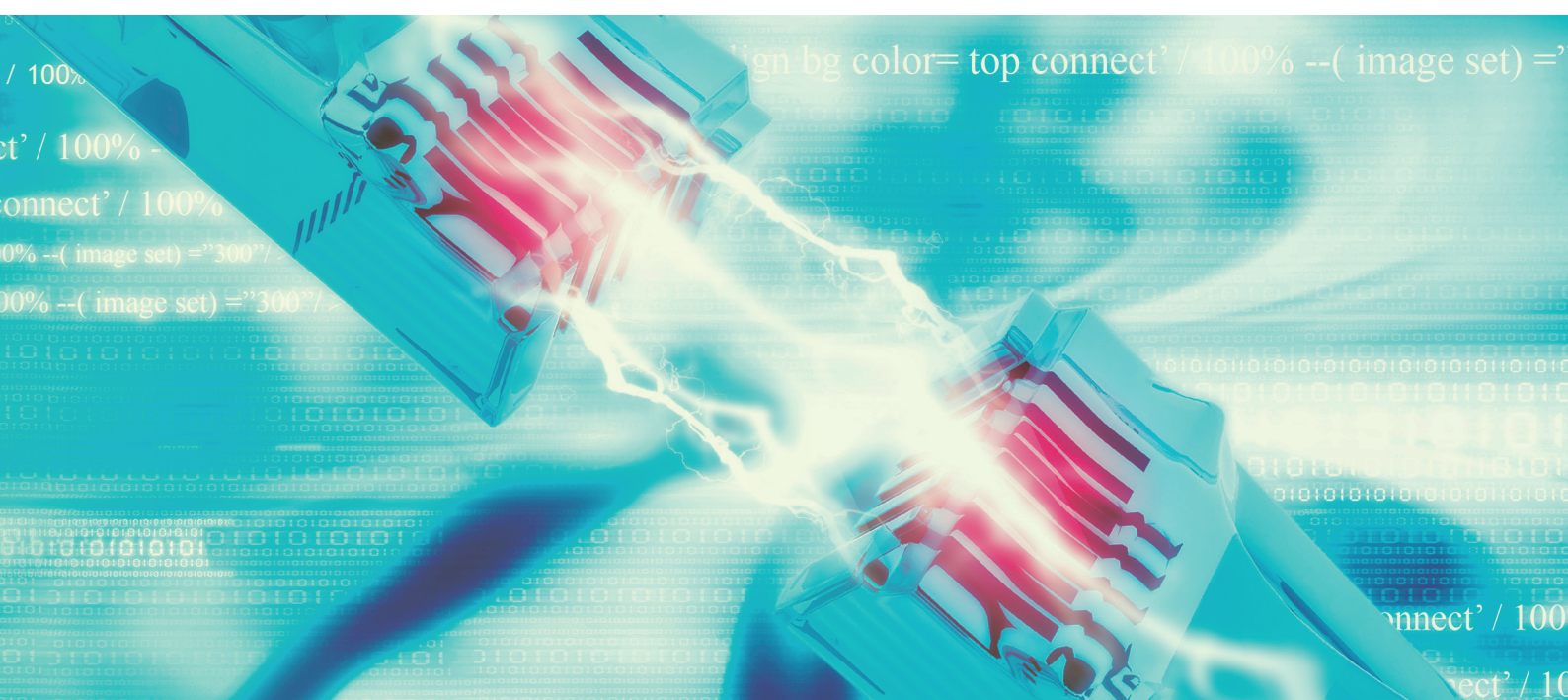
Harsh Environments

By offering both **Layer 2** and **layer 3** options, ATOP's most advanced, fault tolerant product lines offer hundreds of different possible configurations. Our Harsh environment switches are the best choice to support highly demanding networks – in highly demanding environments. They feature 4 to 28 Fast Ethernet, Gigabit or 10 Gigabit ports, an operating temperature range from -20°C to 70°C or wider, **PoE/PoE+** ports, Relay Output, Redundant power input, Ethernet/IP, Profinet Packet Prioritization (for Unmanaged Switches), and Profinet CC-B v2.33 certification (Managed Switches). Selected products offer MIL-STD shock and vibration certification, in high humidity and operating temperatures of between **-40°C to 75°C**. Being **Profinet CC-B v2.33 certified**, this switch Series is Automation and IoT ready.



Engineered for reliable performance in harsh industrial environments, ATOP's Layer-2 Managed Switches enable advanced network management, with features to maximize network performance and minimize downtimes. Our Managed Switches support **ERPS, RSTP, STP and MSTP redundancy protocols**, enable Precision time Synchronization with IEEE1588 Precision Time Protocol. It provides you the ability to manage networks efficiently by SNMP, Web, Telnet or Console. QoS, VLAN and many more functionalities allow bandwidth optimization, increased security and more.

Layer-3 Switches provide an ideal solution for scaling up industrial networks or large surveillance applications. They support IPv4 Static Routing, RIPv1 and RIPv2, OSPFv2, and multicast protocols such as PIM-DM, PIM-SM and DVMRP. With higher port density and faster switching capabilities ATOP Layer-3 switches route data packets without making extra network hops, thus making it faster than routers.



Industrial Unmanaged Switches

Unmanaged Switches



General Information

NEW!

NEW!

Model Number	EH2005	EH2006	EH2008	EHG2008	EH2305	EH2306	EH2308	EH2304-PR
Number of ports								
Total number of ports	5	6	8	8	5	6	8	4
Fast Ethernet 10/100 BaseT(X)	4	6	8	-	4	6	8	4
Fast Ethernet Fiber ports	1	-	-	-	1	-	-	-
Gigabit 10/100/1000 BaseT(X)	-	-	-	8	-	-	-	-
Gigabit 1000Base-X SFP	-	-	-	-	-	-	-	-
MACsec 802.1AE secure ports	-	-	-	-	-	-	-	-
PoE/PoE+ ports	-	-	-	-	-	-	-	-
Power Supply input								
9~30 VDC	Dual	Dual	-	-	Dual	Dual	Dual	Dual
9~48 VDC	-	-	Dual	Dual	-	-	Dual	Dual
12~52 VDC (PoE requires min 45 VDC)	-	-	-	-	-	-	-	-
48~57 VDC	-	-	-	-	-	-	-	-
Relay Output	-	-	-	-	-	-	-	-
Installation Options								
DIN-Rail Mount	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19" Rack Mount	-	-	-	-	-	-	-	-
Field Mount	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Ingress Protection	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	0~60° C	0~60° C	0~60° C	0~60° C	-10~70° C	-10~70° C	-10~70° C	-10~70° C
Storage Temperature	-40~60° C	-40~60° C	-40~60° C	-40~60° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	-	-	-	-	-	-	-	-
ITU-T G.8032 ERPS Ring	-	-	-	-	-	-	-	-
MRP (Client)	-	-	-	-	-	-	-	-
Precision Timing								
IEEE1588v2 Hardware-based TC	-	-	-	-	-	-	-	-
IEEE1588v2 Software-based BC	-	-	-	-	-	-	-	-
Management								
SNMPv1/v2c/v3	-	-	-	-	-	-	-	-
Ethernet/IP	-	-	-	-	-	-	-	-
Modbus TCP	-	-	-	-	-	-	-	-
Profinet CC-A	-	-	(only 802.1p)	(only 802.1p)	-	(only 802.1p)	(only 802.1p)	(only 802.1p)
IEEE802.1ad LACP Port Trunking	-	-	-	-	-	-	-	-
IEEE802.1p QoS	-	-	-	-	-	-	-	-
IEEE802.1q VLAN	-	-	-	-	-	-	-	-
IEEE802.1x for Authentication	-	-	-	-	-	-	-	-
IGMPv1/v2/v3 IGMP Snooping	-	-	-	-	-	-	-	-
DHCP Option 66/67/82	-	-	-	-	-	-	-	-
IPv4/IPv6	-	-	-	-	-	-	-	-
ACLs	-	-	-	-	-	-	-	-
GARP, GVRP, GMRP	-	-	-	-	-	-	-	-
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	-	-	-
Mechanical								
Housing	Plastic	Plastic	Plastic	Plastic	Aluminum	Aluminum	Aluminum	Metal
Dimensions (mm)	45 x 90 x 80	45 x 90 x 80	45 x 90 x 80	45 x 90 x 80	45 x 90 x 78	45 x 90 x 78	45 x 90 x 78	22.5 x 110 x 78
Compliance								
UL60950-1 and/or UL62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	-	-	-	-	-	-	-
IEC61850-3 / IEEE1613	-	-	-	-	-	-	-	-
Atex Zone 2 - UL C1D2	-	-	-	-	-	-	-	-
EN50155/ EN50121-4	-	-	-	-	-	-	-	-

Industrial Unmanaged and Lite-Managed Ethernet Switches

Unmanaged Switches



General Information

Coming soon








Coming soon

Coming soon

Model Number	EH2308-PR	EHG2308	EH2316-2G	EHG6408	EHG6410	EHG7305	EHG7306	EHG7307
Number of ports								
Total number of ports	8	8	16	8	10	5	6	7
Fast Ethernet 10/100 BaseT(X)	8	-	14	-	-	-	-	-
Fast Ethernet Fiber ports	-	-	-	-	-	-	-	-
Gigabit 10/100/1000 BaseT(X)	-	8	2	8	8	5	5	5
Gigabit 100/1000Base-X SFP	-	-	-	-	2*	-	1	2
MACsec 802.1AE secure ports	-	-	-	-	-	-	-	-
PoE/PoE+ ports	-	-	-	Up to 8 (boost)	Up to 8 (boost)	Up to 4	Up to 4	Up to 4
Power Supply input								
9~30 VDC	Dual	Dual	Dual	-	-	-	-	-
9~48 VDC	Dual	Dual	Dual	Yes	Yes	-	-	-
12~57 VDC (12~48VDC PoE Booster)	-	-	-	Optional	Optional	-	-	-
12~52 VDC (PoE requires min 45 VDC)	-	-	-	-	-	Dual	Dual	Dual
48~57 VDC	-	-	-	-	-	-	-	-
Relay Output	-	-	-	Yes	Yes	Yes	Yes	Yes
Installation Options								
DIN-Rail Mount	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19" Rack Mount	-	-	-	-	-	-	-	-
Field Mount	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Ingress Protection	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	-10~70° C	-10~70° C	-10~60° C	-40~75° C	-40~75° C	-40~70° C	-40~70° C	-40~70° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	-	-	-	-	-	-	-	-
ITU-T G.8032 ERPS Ring	-	-	-	-	-	-	-	-
MRP (Client)	-	-	-	-	-	-	-	-
Precision Timing								
IEEE1588v2 Hardware-based TC	-	-	-	-	-	-	-	-
IEEE1588v2 Software-based BC	-	-	-	-	-	-	-	-
Management								
SNMPv1/v2c/v3	-	-	-	-	-	-	-	-
Ethernet/IP	-	-	-	-	-	-	-	-
Modbus TCP	-	-	-	-	-	-	-	-
Profinet CC-A	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)	(only 802.1p)
IEEE802.1ad LACP Port Trunking	-	-	-	-	-	-	-	-
IEEE802.1p QoS	-	-	-	-	-	-	-	-
IEEE802.1q VLAN	-	-	-	-	-	-	-	-
IEEE802.1x for Authentication	-	-	-	-	-	-	-	-
IGMPv1/v2/v3 IGMP Snooping	-	-	-	-	-	-	-	-
DHCP Option 66/67/82	-	-	-	-	-	-	-	-
IPv4/IPv6	-	-	-	-	-	-	-	-
ACLs	-	-	-	-	-	-	-	-
GARP, GVRP, GMRP	-	-	-	-	-	-	-	-
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	-	-	-
Mechanical								
Housing	Metal	Aluminum	Metal	Metal	Metal	Metal	Metal	Metal
Dimensions (mm)	45 x 110 x 90	45 x 90 x 78	54 x 113 x 145	54 x 113 x 145	54 x 113 x 145	32 x 90 x 110	45 x 90 x 110	45 x 90 x 110
Compliance								
UL60950-1 and/or UL62368-1	Yes	Yes	Yes	Yes	Yes	-	-	-
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	-	-	-	-	Yes	Yes	Yes
IEC61850-3 / IEEE1613	-	-	-	-	-	-	-	-
Atex Zone 2 - UL C1D2	-	-	-	-	-	Yes	Yes	Yes
E-Mark	-	-	-	Yes	Yes	-	-	-
EN50155/ EN50121-4	-	-	-	-	-	Yes	Yes	Yes

* different versions available for 1000Mbps speed and 100/1000Mbps fiber speed

Industrial Unmanaged and Lite-Managed Ethernet Switches

	Unmanaged Switches			Smart Switches			
							
General Information				NEW!	NEW!	Coming soon	Coming soon
Model Number	EH7310	EHG6308	EMG8305	EHG2408	EHG2408-2SFP	EHG6508	EHG6510
Number of ports							
Total number of ports	10	8	5	8	8	8	10
Fast Ethernet 10/100 BaseT(X)	8	-	-	-	-	-	-
Fast Ethernet Fiber ports	(2)	-	-	-	-	-	-
Gigabit 10/100/1000 BaseT(X)	(2)	4 or 8	5 (M12)	8	6	8	8
Gigabit 100/1000Base-X SFP	-	-	-	-	2	-	(2)
Gigabit 1000Base-X SFP	(2)	0 or 4	-	-	-	-	(2)
MACsec 802.1AE secure ports	(2)	0 or 4	-	2	2 (SFP)	-	-
PoE/PoE+ ports	-	4	-	-	-	Up to 8 (boost)	Up to 8 (boost)
Power Supply input							
9~30 VDC	Dual	-	-	Dual	Dual	-	-
9~48 VDC	Dual	-	Dual	Dual	Dual	Dual	Dual
12~57 VDC (12~48VDC PoE Booster)	-	-	-	-	-	Optional	Optional
12~52 VDC (PoE requires min 45 VDC)	-	-	-	-	-	-	-
48~57 VDC	-	Dual	-	-	-	-	-
Relay Output	Yes	Yes	-	-	-	Yes	Yes
Installation Options							
DIN-Rail Mount	Yes	Yes	Optional	Yes	Yes	Yes	Yes
19" Rack Mount	-	-	-	-	-	-	-
Field Mount	Optional	Optional	Yes	Option	Optional	Optional	Optional
Ingress Protection	IP30	IP30	IP67	IP30	IP30	IP30	IP30
Supported Temperatures							
Operations Temperature	-40~75° C	-10~70° C	-40~75° C	-20~70° C	-20~70° C	-40~75° C	-40~75° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy							
STP/RSTP/MSTP	-	-	-	-	-	RSTP only	RSTP only
ITU-T G.8032 ERPS Ring	-	-	-	-	-	-	-
MRP (Client)	-	-	-	-	-	-	-
Precision Timing							
IEEE1588v2 Hardware-based TC	-	-	-	-	-	-	-
IEEE1588v2 Software-based BC	-	-	-	-	-	-	-
Management							
SNMPv1/v2c/v3	-	-	-	-	-	-	-
Ethernet/IP	-	-	-	-	-	-	-
Modbus TCP	-	-	-	-	-	Yes	Yes
Profinet CC-A	-	-	(only 802.1p)	(only 802.1p)	(only 802.1p)	-	-
IEEE802.1ad LACP Port Trunking	-	-	-	-	-	-	-
IEEE802.1p QoS	-	-	-	-	-	Yes	Yes
IEEE802.1q VLAN	-	-	-	-	-	Yes	Yes
IEEE802.1x for Authentication	-	-	-	-	-	-	-
IGMPv1/v2/v3 IGMP Snooping	-	-	-	-	-	-	-
DHCP Option 66/67/82	-	-	-	-	-	-	-
IPv4/IPv6	-	-	-	-	-	-	-
ACLs	-	-	-	-	-	-	-
GARP, GVRP, GMRP	-	-	-	-	-	-	-
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	-	-
Mechanical							
Housing	Metal	Metal	Aluminum	Metal	Metal	Metal	Metal
Dimensions (mm)	119 x 46 x 138	53 x 146 x 120	106 x 196 x 48	110 x 89 x 45	110 x 89 x 45	54 x 113 x 145	54 x 113 x 145
Compliance							
UL60950-1 and/or UL62368-1	Yes	Yes	-	Yes	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	-	Yes	-	-	-	-
IEC61850-3 / IEEE1613	-	-	-	-	-	-	-
Atex Zone 2 - UL C1D2	-	-	-	-	-	-	-
E-Mark	-	-	-	-	-	Yes	Yes
EN50155/ EN50121-4	Yes	-	Yes	-	-	-	-

Industrial Managed Ethernet Switches

Managed Layer-2 Fast-Ethernet Switches

Managed Layer-2 Gigabit Switches











General Information

Coming soon

Coming soon

Model Number	EH7506	EH7508	EH7512	EH7520	EHG7504	EHG7508	EHG7512	EHG7516
Number of ports								
Total number of ports	6	8	12	20	4	8	12	16
Fast Ethernet 10/100 BaseT(X)	4	4	8	16	-	-	-	-
Fast Ethernet Fiber ports	2 (SFP)	-	-	-	-	-	-	-
Gigabit 10/100/1000 BaseT(X)	-	(4) combo	(4) combo	(4) combo	Max 4	Max 8	Max 8	Max 12
Gigabit 100/1000Base-X SFP	-	(4) combo	(4) combo	(4) combo	-	-	Max 8	Max 12
Gigabit 1000Base-X SFP	-	-	-	-	Max 4	Max 8	(4)	(4)
Gigabit 1/10 Gigabit Base-X	-	-	-	-	-	-	(4)	(4)
PoE/PoE+ ports	Max 4	Max 4	Max 8	Max 8	Max 4	Max 8	Max 8	Max 8
Power Supply input								
9~57 VDC (PoE requires min 45 VDC)	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
12~57 VDC (PoE requires min 45 VDC)	-	-	-	-	-	-	-	-
50~145 VDC	-	-	-	-	-	-	-	-
110~220 VAC	-	-	-	-	-	-	-	-
Relay Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation Options								
DIN-Rail Mount	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19" Rack Mount	-	-	-	-	-	-	-	-
Field Mount	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Ingress Protection	IP30	IP30	IP30	IP30	IP30	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	-20~70° C	-20~70° C	-20~70° C	-20~70° C	-20~70° C	-20~70° C	-40~70° C	-40~70° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ITU-T G.8032 ERPS Ring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MRP (Client)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Precision Timing								
IEEE1588v2 Hardware-based TC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE1588v2 Software-based BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management								
SNMPv1/v2c/v3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet/IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modbus TCP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Profinet CC-B	Certified	Certified	Certified	Certified	Certified	Certified	-	-
IEEE802.1ad LACP Port Trunking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1p QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1q VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1x for Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMPv1/v2/v3 IGMP Snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 66/67/82	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPv4/IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACLs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GARP, GVRP, GMRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	-	-	-	-
Mechanical								
Housing	Metal	Metal	Metal	Metal	Metal	Metal	Metal	Metal
Dimensions (mm)	60 x 138 x 164	60 x 138 x 164	60 x 138 x 164	78 x 138 x 164	54 x 113 x 145	54 x 113 x 145	76 x 160 x 200	95 x 160 x 200
Compliance								
UL60950-1 and/or UL62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	-	-	-	-	-	-	-
NEMA TS2	Yes	Yes	Yes	-	Yes	Yes	-	-
Atex Zone 2 - UL C1D2	-	-	-	-	-	-	-	-
EN50155/ EN50121-4	-	-	-	-	Yes	Yes	-	-

Industrial Managed Ethernet Switches

	Managed Layer-2 Gigabit Switches				Managed Layer-3 Gigabit Switches			
								
General Information	Coming soon				Coming soon			
Model Number	EHG7520	EMG8508	EMG8510	RHG7528	EHG7604	EHG7608	EHG7612	EHG7616
Number of ports								
Total number of ports	20	8	10	28 (Max)	4	8	12	16
Fast Ethernet 10/100 BaseT(X)	-	-	-	-	-	-	-	-
Fast Ethernet Fiber ports	-	-	-	-	-	-	-	-
Gigabit 10/100/1000 BaseT(X)	Max 16	8 (M12)	8 (M12)	28 (Max)	Max 4	Max 8	Max 8	Max 12
Gigabit 100/1000Base-X SFP	Max 16	-	-	24 (Max)	-	-	Max 8	Max 12
Gigabit 1000Base-X SFP	(4)	-	2	-	Max 4	Max 8	(4)	(4)
Gigabit 1/10 Gigabit Base-X	(4)	-	-	4 (Max)	-	-	(4)	(4)
PoE/PoE+ ports	Max 8	Max 8	Max 8	Max 24	Max 4	Max 8	Max 8	Max 8
Power Supply input								
9~57 VDC (PoE requires min 45 VDC)	Dual	-	-	Dual	Dual	Dual	Dual	Dual
12~57 VDC (PoE requires min 45 VDC)	-	Dual	Dual	-	-	-	-	-
50~145 VDC	-	Dual	Dual	-	-	-	-	-
110~220 VAC	-	-	-	Dual	-	-	-	-
Relay Output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Installation Options								
DIN-Rail Mount	Yes	Optional	Optional	-	Yes	Yes	Yes	Yes
19" Rack Mount	-	-	-	Yes	-	-	-	-
Field Mount	Optional	Yes	Yes	-	Optional	Optional	Optional	Optional
Ingress Protection	IP30	IP67	IP67	IP30	IP30	IP30	IP30	IP30
Supported Temperatures								
Operations Temperature	-40~70° C	-40~75° C	-40~75° C	-40~70° C	-20~70° C	-20~70° C	-40~70° C	-40~70° C
Storage Temperature	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C	-40~85° C
Network Redundancy								
STP/RSTP/MSTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ITU-T G.8032 ERPS Ring	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MRP (Client)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Precision Timing								
IEEE1588v2 Hardware-based TC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE1588v2 Software-based BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Management								
SNMPv1/v2c/v3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ethernet/IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Modbus TCP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Profinet CC-B	-	-	-	-	-	-	-	-
IEEE802.1ad LACP Port Trunking	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1p QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1q VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE802.1x for Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMPv1/v2/v3 IGMP Snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Option 66/67/82	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPv4/IPv6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACLs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GARP, GVRP, GMRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	-	-	-	-	Yes	Yes	Yes	Yes
Mechanical								
Housing	Metal	Aluminum	Aluminum	Metal	Metal	Metal	Metal	Metal
Dimensions (mm)	95 x 160 x 200	216 x 232 x 72	216 x 232 x 72	440 x 44 x 340	54 x 113 x 145	54 x 113 x 145	76 x 160 x 200	95 x 160 x 200
Compliance								
UL60950-1 and/or UL62368-1	Yes	-	-	Yes	Yes	Yes	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
UL61010-2-201	-	Yes	Yes	-	-	-	-	-
NEMA TS2	-	-	-	-	Yes	Yes	-	-
Atex Zone 2 - UL C1D2	-	Compatible	Compatible	-	-	-	-	-
EN50155/ EN50121-4	-	Yes	Yes	Yes	Yes	Yes	-	-

Industrial Managed Switches

Managed Layer-3 Gigabit Switches



General Information

Coming soon

Model Number	EHG7620	RHG7628
Number of ports		
Total number of ports	20	28 (Max)
Fast Ethernet 10/100 BaseT(X)	-	-
Fast Ethernet Fiber ports	-	-
Gigabit 10/100/1000 BaseT(X)	Max 16	28 (Max)
Gigabit 100/1000Base-X SFP	Max 16	24 (Max)
Gigabit 1000Base-X SFP	(4)	
Gigabit 1/10 Gigabit Base-X	(4)	4 (Max)
PoE/PoE+ ports	Max 8	Max 24
Power Supply input		
9~57 VDC (PoE requires min 45 VDC)	Dual	Dual
12~57 VDC (PoE requires min 45 VDC)	-	-
50~145 VDC	-	-
110~220 VAC	-	Dual
Relay Output	Yes	Yes
Installation Options		
DIN-Rail Mount	Yes	-
19" Rack Mount	-	Yes
Field Mount	Optional	-
Ingress Protection	IP30	IP30
Supported Temperatures		
Operations Temperature	-40~70° C	-40~70° C
Storage Temperature	-40~85° C	-40~85° C
Network Redundancy		
STP/RSTP/MSTP	Yes	Yes
ITU-T G.8032 ERPS Ring	Yes	Yes
MRP (Client)	Yes	Yes
Precision Timing		
IEEE1588v2 Hardware-based TC	Yes	Yes
IEEE1588v2 Software-based BC	Yes	Yes
Management		
SNMPv1/v2c/v3	Yes	Yes
Ethernet/IP	Yes	Yes
Modbus TCP	Yes	Yes
Profinet CC-B	-	-
IEEE802.1ad LACP Port Trunking	Yes	Yes
IEEE802.1p QoS	Yes	Yes
IEEE802.1q VLAN	Yes	Yes
IEEE802.1x for Authentication	Yes	Yes
IGMPv1/v2/v3 IGMP Snooping	Yes	Yes
DHCP Option 66/67/82	Yes	Yes
IPv4/IPv6	Yes	Yes
ACLs	Yes	Yes
GARP, GVRP, GMRP	Yes	Yes
Layer-3 Switching (Static, RIP, OSPF)	Yes	Yes
Mechanical		
Housing	Metal	Metal
Dimensions (mm)	95 x 160 x 200	440 x 44 x 340
Compliance		
UL60950-1 and/or UL62368-1	Yes	Yes
EN60950-1 and/or EN62368-1	Yes	Yes
UL61010-2-201	-	-
NEMA TS2	-	-
Atex Zone 2 - UL C1D2	-	-
EN50155/ EN50121-4	-	Yes

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