

FEATURE HIGHLIGHTS



- Up to 8 10/100/1000 BASE-T(X) RJ45 ports or 1000 BASE-X SFP slots.
- Up to 8 802.3af/ 802.3at Power over Ethernet ports, with maximum 30W PoE power per port and maximum 240 W device power budget.
- Powerful Layer-3 Switching, supporting IPv4 Static, RIPv1/v2 and OSPFv2
- Layer-2 Redundancy, with ERPS, RSTP, STP, MRP (Client) and more.
- Profinet Conformance Class B certified & Ethernet/IP Ready
- IEEE 1588v2 Precision Time Protocol Hw-Based Transparent clock
- CE/FCC/UL and NEMA TS-2 Certified for Traffic Control Applications
- Works from -20°C~70°C, in 4000m elevation

PRODUCT DESCRIPTION

The EHG7604/EHG7608 Series is an Industrial Grade Layer-3 Managed Gigabit Ethernet PoE Switch. Designed to provide a highly reliable, fault-tolerant, extremely fast network connection in a harsh environment, EHG7604/EHG7608 Series equips two terminal blocks to provide dual redundant power inputs with Reverse Polarity Protection and allows field engineers to build up a stand-alone fault alarm system. *EHG76XX family is UL, CE, FCC and NEMA TS-2 certified, allowing the use in Traffic Control Applications.*

Within its compact DIN-Rail housing design, the EHG7604/EHG7608 series **allows you to choose between different port combinations:** 10/100/1000 BASE-T(X) RJ45 port, 1000 BASE-X SFP port and IEEE 802.3af/at complaint PoE RJ45. EHG7604/08 provide, in its 8-PoE-Port Version, up to **240W power budget.**

Layer-3 routing support IPv4 static routing, RIP v1/v2 and OSPFv2.

This is the right choice if you want to set up a Reliable network environment with its intelligent features and keep equipment connected all the time, even in case of temporary network breakdowns through **RSTP, ERPS Rings and MRP (client) redundancy.** And that's not all. **Designed specifically for Automation, it is Profinet CC-B v2.33 certified and Ethernet/IP compatible,** MAC-based Black List/White List, IEEE 802.1x, RADIUS, TACACS+, etc., and keep your network safe.

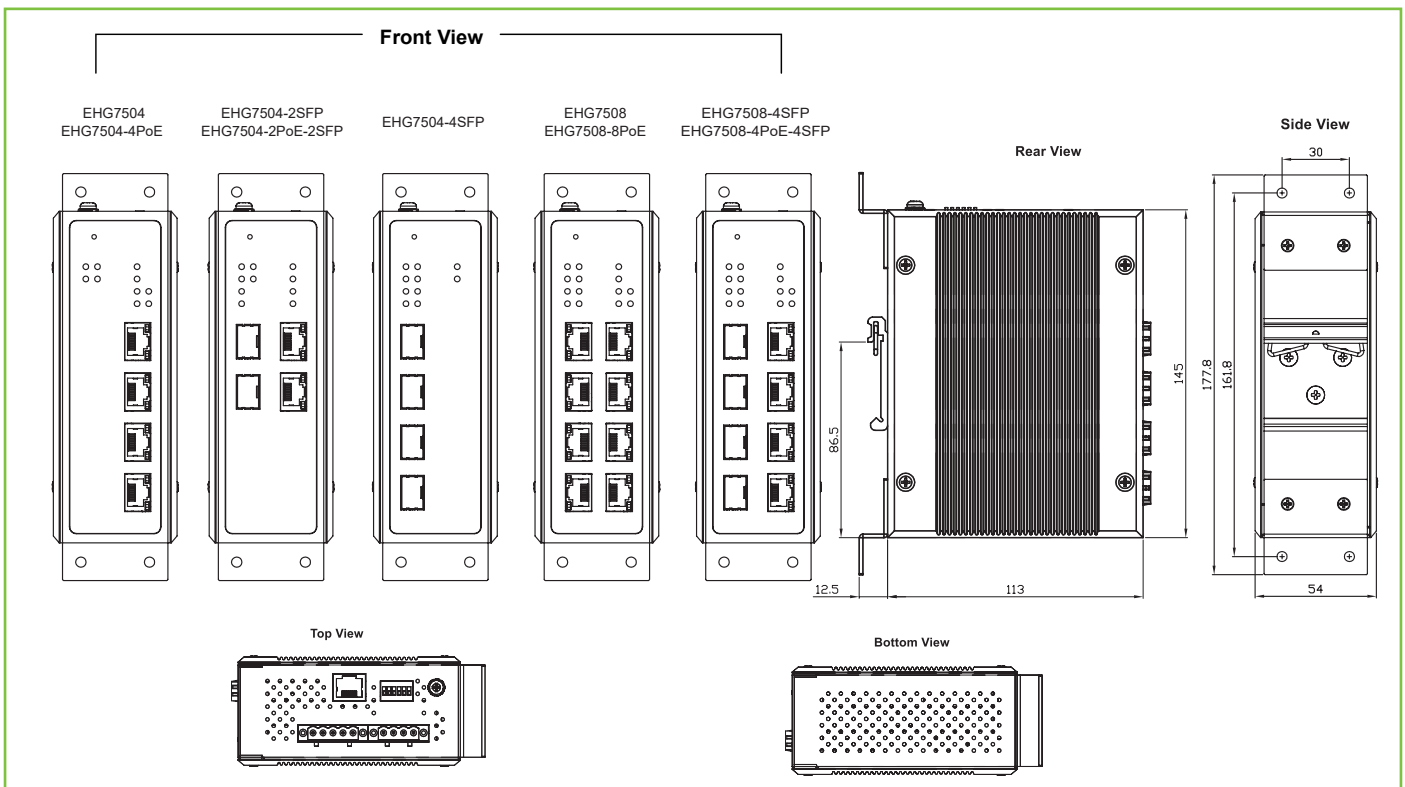
EHG7604/EHG7608 Series : built tough.

SPECIFICATIONS

| Technical Specifications | |
|--------------------------|--|
| Model Name | EHG7604/ EHG7608 |
| Switch Properties | |
| Priority Queues | 8 |
| VLAN Table | 4096 |
| MAC-Based VLAN | 512 |
| VLAN ID Range | VID 1 to 4094 |
| Trunk Group | 4 |
| Static IGMP Groups | 128 |
| Dynamic IGMP Groups | 256 |
| MAC Table Size | 16K |
| Packet Buffer Size | 1.5 MB |
| Jumbo Frame | 9216 Byte |
| Ethernet | |
| Standards | IEEE 802.3af / 802.3at for Power-over-Ethernet IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-T(X) IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X IEEE 802.3x for Flow Control IEEE 802.1d-2004 for Spanning Tree Protocol IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1s for Multiple Spanning Tree Protocol IEEE 802.1q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 8021x for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3az for Energy Efficient Ethernet |
| Protocols | IPv4, IPv6, IGMPv1/v2/v3, IGMP Snooping, GARP, GMRP, GVRP, SNMPv1/v2c/v3, SNMP Inform, ICMP, Telnet, SSH, DHCP Server/Relay/Client, DHCP Option 66/67/82, BootP, RARP, TFTP, NTP Server/Client, SNTP, SMTP, SMTP (Gmail), RMON, HTTP, HTTPS, Syslog, MRP (Client), LLDP, IEEE 1588 PTP V1/V2, IEEE 1588 Hardware Transparent Clock, 802.1x, EAP, RADIUS, TACACS+, Mirror port, QoS, ACL, Serial Console, U-Ring, STP, RSTP, MSTP, Compatible Ring |
| Layer-3 Protocols | Routing: IPv4 Unicast static routing, RIP v1/v2, OSPFv2, Multicast: IGMPv1/v2/v3, DVMRP, PIM-DM, PIM-SM, PIM-SSM Routing Redundancy: VRRP (Virtual Router Redundancy Protocol) |
| Automation Profiles | Profinet CC-B v2.33 certified, Ethernet/IP ready, Modbus/TCP status registers |
| SNMP MIB | MIB II, IF-MIB, SNMPv2 MIB, BRIDGE-MIB, RMON MIB Group 1,2,3,9, RFC RFC 1157, RFC 1213, RFC 1215, RFC 1493, RFC 1643, RFC 1757, RFC 2011, RFC 2012, RFC 2013, RFC 2233, RFC 2571, RFC 2742, RFC 2819, RFC 2863, RFC 3411, RFC 3412, RFC 3413, RFC 3414, RFC 3415, RFC 2674 |
| Power | |
| Input Voltage | 9-57 VDC for Non-PoE models 45-57 VDC for 802.3af mode 51-57 VDC for 802.3at mode |
| Input Current (System) | Max. 1.4A @ 9VDC (without PoE) Max. 2.9A @ 45VDC (Support up to 8 ports at 15.4W per PoE port) Max. 5.0A @ 51VDC (Support up to 8 ports at 30W per PoE port) |

| | |
|---|--|
| Power Consumption (System) | Max 12.6 W @9 VDC (without PoE) Max 130.5 W @45VDC (802.3af, with 15.4W PoE per port for 8 ports) Max 255 W @51VDC (802.3at, with 30W PoE per port for 8 ports) |
| Connector Reverse Polarity Protection | 5-Pin 5.08mm Lockable Terminal Block Yes |
| Interfaces | |
| RJ45 Ports Fiber Optics Ports LED Indicators Console Relay Output DIP Switches Button | Up to 8 10/100/1000BASE-T(X) auto negotiation speed Up to 4 1000BASE-X SFP slot PWR1, PWR2, Alarm, Run, Ring, Ring Master, RJ-45 Link/Speed, SFP Link, PoE RS232 (RJ45 connector) 2 relay outputs with current carrying capacity of 1A @ 24 VDC Ring Control and Profinet Setting Reset Button |
| Physical Characteristics | |
| Housing Dimension (W x H x D) Weight Installation | IP30 aluminum housing 54 x 113 x 145 mm 800g DIN-Rail , Wall mount (optional kit) |
| Environmental Limits | |
| Operating Temperature Storage Temperature Ambient Relative Humidity | -20°C~70°C (-4°F~158°F) -40°C~85°C (-40°F~185°F) 5%~95%, 55°C (Non-condensing) |

DIMENSIONS & LAYOUT



REGULATORY APPROVALS

| Regulatory Approvals | | | | |
|----------------------------|--|-------------------|---------------------|---|
| Safety | UL 60950-1 2nd Ed. /CSA C22.2 No.60950-1-07 2nd Ed. / EN 60950-1 / CB | | | |
| EMC | FCC Part 15, Subpart B, Class A EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4, | | | |
| Test | Item | Value | Level | |
| IEC 61000-4-2 | ESD | Contact Discharge | ±6kV | 3 |
| | | Air Discharge | ±8kV | 3 |
| IEC 61000-4-3 | RS | 80-1000MHz | 10(V/m) | 3 |
| | | 1.4-2.0GHz | 3(V/m) | 3 |
| | | 2.0-2.7GHz | 10(V/m) | 3 |
| IEC 61000-4-4 | EFT | AC Power Port | ±2.0kV | 3 |
| | | DC Power Port | ±2.0kV | 3 |
| | | Signal Port | ±1.0kV | 3 |
| IEC 61000-4-5 | Surge | DC Power Port | Line-to Line±1.0kV | 3 |
| | | DC Power Port | Line-to Earth±2.0kV | 3 |
| | | Signal Port | Line-to Earth±2.0kV | 3 |
| IEC 61000-4-6 | CS | 0.15-80MHz | 10V rms | 3 |
| IEC 61000-4-8 | PFMF | Enclosure | 30 V/m | 4 |
| IEC 61000-4-11 | DIP | AC Power Port | - | A |
| Shock Drop Vibration | MIL-STD-810G Method 516.5 MIL-STD-810F Method 516.5 MIL-STD-810F Method 514.5 C-1 & C-2 | | | |
| Traffic Control | NEMA TS-2 | | | |
| High Altitude | Certified for 4000m altitude according to IEC 60068-2-13 | | | |
| RoHS II | Yes | | | |
| MTBF | 20 Years | | | |

ORDERING INFORMATION

Ordering information

| Model name | Part Number | RJ45 (non-PoE) | RJ45 (PoE) | SFP |
|-------------------|-----------------|----------------|------------|-----|
| EHG7604 | 1P1EHG76040001G | 4 | 0 | 0 |
| EHG7604-4PoE | 1P1EHG76040002G | 0 | 4 | 0 |
| EHG7604-2SFP | 1P1EHG76040003G | 2 | 0 | 2 |
| EHG7604-4SFP | 1P1EHG76040004G | 0 | 0 | 4 |
| EHG7604-2PoE-2SFP | 1P1EHG76040005G | 0 | 2 | 2 |
| EHG7608 | 1P1EHG76080001G | 8 | 0 | 0 |
| EHG7608-8PoE | 1P1EHG76080002G | 0 | 8 | 0 |
| EHG7608-4SFP | 1P1EHG76080003G | 4 | 0 | 4 |
| EHG7608-4PoE-4SFP | 1P1EHG76080004G | 0 | 4 | 4 |

Optional Accessories

| Model name | Part Number | Description |
|--------------------------|-----------------|---|
| WMK-450-Black | 70100000000052G | Aluminum wall mount kit |
| CBL-RJ45(8P)-DB9(F)-90-C | 50891971G | RJ45 to DB9 Female Cross Over Console Cable, 90cm |
| SDR-75-24 | 50500752240001G | 75W/3.2A DIN-Rail 24VDC power supply 88~264VAC / 124~370VDC input |
| SDR-240-48 | 50502401480001G | 240W/5A DIN-Rail 48VDC power supply 88~264VAC / 124~370VDC input |
| LM28-C3S-TI-N | 50708031G | SFP Transceiver, 1250Mbps, 850nmVCSEL, Multi-mode, 550m, 3.3V, -20~85°C |
| LM38-C3S-TI-N | 50709411G | SFP Transceiver, 1250Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85°C |
| LS38-C3S-TI-N | 50709391G | SFP Transceiver, 1250Mbps, 1310nmFP, Single-mode, 10km, 3.3V, -40~85°C |
| LS38-C3L-TI-N | 50709441G | SFP Transceiver, 1250Mbps, 1310nmDFB, Single-mode, 30km, 3.3V, -40~85°C |