

Industrial PoE Unmanaged Gigabit Ethernet Switch

EHG7305/7306/7307 Series



Feature Highlights

- ✓ Up to 5 10/100/1000 BASE-T(X) ports and 2 1000 BASE-X SFP ports
- ✓ Up to 4 802.3af or 802.3at compliant PoE ports
- ✓ Support 10K Jumbo frames
- ✓ Supports 802.3az Energy Efficient Ethernet for power savings
- ✓ Works from -40°C~70°C
- ✓ Failed power input alarm contact
- ✓ Certified by UL 61010-2-201 and UL C1D2/ATEX Zone 2
- ✓ EN50155 / EN50121-4 certified for Railway and Trainside applications

Product Description

The EHG7305/7306/7307 are 5-7 Port PoE Unmanaged Gigabit Ethernet Switches designed to work in mission critical environments such as mining and heavy industry. It equips up to five 10/100/1000BASE-T(X) RJ-45 ports and up to two 100/1000 BASE-F(X) and 1000 BASE-X SFP ports. With its high performance and non-blocking switching capacity, the EHG7300 Series is able to fulfill the increasing demand in industrial networking. Its PoE capability of 30W per port up to four ports simplifies the wiring in complex fields, where every cable is an added cost. The equipped terminal block provide dual redundant power inputs with Reverse Polarity Protection and relay output which allows field engineers to build up a fault alarm system. Its IP30 housing protection, wide operating temperature of -40 to 70°C and DIN-Rail mounting capacities are liable to do most industrial filed applications. The RHG7628 Series is fully **EN50155-certified** to ensure reliable performance under a wide range of power supply conditions, and it complies with essential sections of **EN50121-4** for ground equipment.

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Design and specification are subjected to change without notice.

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| Specification | | | | | | |
|-----------------------------------|---|----------------------|--------------|-------------------|--------------|-------------------|
| Model Name | EHG7305 | EHG7305-4PoE | EHG7306-1SFP | EHG7306-4PoE-1SFP | EHG7307-2SFP | EHG7307-4PoE-2SFP |
| Switch Properties | | | | | | |
| Processing Scheme | Store-and-Forward | | | | | |
| MAC Address Table | 8096 | | | | | |
| Jumbo Frame | 10K Bytes | | | | | |
| Packet Buffer | 1 Mbits | | | | | |
| Ethernet | | | | | | |
| Compliance | IEEE802.3 for 10BASE-T IEEE802.3u for 100BASE-T(X) and 100BASE-FX IEEE 802.3ab for 1000BASE-T IEEE 802.3z for 1000BASE-X IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.3x Flow Control IEEE 802.3af / 802.3at for Power-over-Ethernet IEEE 802.3az for Energy Efficient Ethernet | | | | | |
| Flow Control | Back pressure and pause frame-based flow control schemes | | | | | |
| LLDP | Forwarding | | | | | |
| Transmission Rate | 10/100/1000 Mbps (the second SFP port is 1000 Mbps only) | | | | | |
| Auto MDI/MDI-X | Yes | | | | | |
| Power | | | | | | |
| Input Voltage | 12-52 VDC* | | | | | |
| Input Current (System) | 0.5A @ 12 V | | 0.6A @ 12V | | | |
| Max. Power Consumption (System) | 6 W | | 7.2 W | | | |
| Input Current (with PoE) | - | 2.6A @ 51 V | - | 2.6A @ 51 V | - | 2.6A @ 51 V |
| Max. Power Consumption (with PoE) | - | 130 W | - | 130 W | - | 130 W |
| Relay Output | 24 V / 0.5A | | | | | |
| Connector | Terminal Block | | | | | |
| LED | | | | | | |
| Indicators | PWR1, PWR2, Alarm, RJ45 Act/Link, SFP Link, PoE | | | | | |
| Physical Characteristics | | | | | | |
| Housing | IP30 protection according to EN 60529 | | | | | |
| Material | SECC | Aluminum | | | | |
| Dimension (W x H x D) | 32 x 90 x 110 mm | 45.3 x 89.6 x 110 mm | | | | |
| Weight | 420g | 350g | | | | |
| Installation | DIN-rail or wall-mount (optional) | | | | | |

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| Environmental Limits | |
|---------------------------|-------------------------------|
| Operating Temperature | -40°C~70°C (-40°F~158°F) |
| Storage Temperature | -40°C~85°C (-40°F~185°F) |
| Ambient Relative Humidity | 5%~95%, 55°C (Non-condensing) |

*802.3af PoE output starts from 43 VDC input and 802.3at output starts from 51 VDC input.

| Regulatory Approvals | | | | |
|----------------------|--|-------------------|---------------------|-------|
| Safety | UL 61010-2-201, UL C1D2/ATEX Zone 2 | | | |
| EMC | EN 55032 EN 61000-6-4 EN 55024 EN 61000-6-2 | | | |
| Rall Traffic | EN50155 / EN50121-4 | | | |
| Test | Item | | Value | Level |
| IEC 61000-4-2 | ESD | Contact Discharge | ±8KV | 4 |
| | | Air Discharge | ±15KV | 4 |
| IEC 61000-4-3 | RS | 80-1000MHz | 10(V/m) | 3 |
| | | 1.4-2.0GHz | 3 (V/m) | |
| | | 2.0-2.7GHz | 10(V/m) | |
| IEC 61000-4-4 | EFT | AC Power Port | ±2.0KV | 3 |
| | | DC Power Port | ±2.0KV | 3 |
| | | Signal Port | ±2.0KV | 4 |
| IEC 61000-4-5 | Surge | AC Power Port | Line-to Line±1.0KV | 3 |
| | | AC Power Port | Line-to Earth±2.0KV | 3 |
| | | 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 | Conducted | 10 Vrms | 3 |
| IEC 61000-4-8 | PFMF | Enclosure | 10 V/m | 3 |
| IEC 61000-4-11 | DIP | AC Power Port | - | - |
| Shock | MIL-STD-810F Method 516.5 | | | |
| Drop | MIL-STD-810F Method 516.5 | | | |
| Vibration | MIL-STD-810F Method 514.5 C-1 & C-2 | | | |
| High Altitude | Certified for 4000m altitude according to IEC 60068-2-13 | | | |
| RoHS | Yes | | | |
| MTBF | TBD | | | |
| Warranty | 5 years | | | |

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| Ordering Information | | | | |
|----------------------|-----------------|--------------------|----------------|-----|
| Model Name | Part Number | Port Configuration | | |
| | | RJ-45 (non-PoE) | RJ-45 (PoE) | SFP |
| EHG7305 | 1P1EHG73050001G | 5 | 0 | 0 |
| EHG7305-4PoE | 1P1EHG73050002G | 1 | 4 | 0 |
| EHG7306-1SFP | 1P1EHG73060001G | 5 | 0 | 1 |
| EHG7306-4PoE-1SFP | 1P1EHG73060002G | 1 | 4 | 1 |
| EHG7307-2SFP | 1P1EHG73070001G | 5 | 0 | 2 |
| EHG7307-4PoE-2SFP | 1P1EHG73070002G | 1 | 4 | 2 |

| Optional Accessories | | |
|----------------------|-----------------|--|
| Model Name | Part Number | Description |
| WMK-315-Black | 70100000000050G | Aluminum Wall Mount Kit,Black (only EHG7305) |
| WMK-454-Black | 70100000000043G | Aluminum Wall Mount Kit,Black (for EHG7305-4PoE,EHG7306 and EHG7307) |
| SDR-75-24 | 50500752240001G | 75W/3.2A DIN-Rail 24VDC power supply with universal 88~264VAC / 124~370VDC input |
| SDR-240-48 | 50502401480001G | 240W/5A DIN-Rail 48VDC power supply with universal 88~264VAC / 124~370VDC input |
| LM38-A3S-TI-N | 50708051G | SFP Transceiver, 155Mbps, 1310nmFP, Multi-mode, 2km, 3.3V, -40~85°C |
| LS38-A3S-TI-N | 50709431G | SFP Transceiver, 155Mbps, 1310nmFP, Single-mode, 30km, 3.3V, -40~85°C |
| 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 |

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