

Ethernet switch, 8 ports, Gigabit - ETHSWG8C1



- 8x 10/100/1000BaseT(X)
- Unmanaged / Plug and Play
- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x
- IEEE 802.1p: CoS, 4 queues per port
- Supports jumbo frames up to 9000 bytes
- Broadcast and multicast flooding storm control
- Redundant voltage input / fault signaling relay output
- Operating temperature -40 °C to +75 °C
- Protection class IP30

<https://www.wachendorff-prozesstechnik.de/en/ETHSWG8C1>

Description

The ETHSWG8C1 is a very compact and robust Industrial Ethernet switch with 8x 10/100/1000BaseT(X). In addition to IEEE 802.3, IEEE802.3u, IEEE 802.3ab and IEEE802.3x, CoS according to IEEE 802.1p is also supported. Four queues (priority classes) are available per port for this purpose. The compact housing, certified to protection class IP30, was developed for use in harsh and demanding industrial environments where large temperature differences and physical loads are known to occur.

The ETHSWG8C1 is an unmanaged and plug and play switch with a non-blocking/wirespeed Layer 2 switching engine. Secure transmission is guaranteed thanks to the Store and Forward operating mode. The switchable Flooding Storm Control function protects against unwanted occupation of the available transmission rate by broadcast or multicast data frames.

The switch has a redundant power input and a fault signal relay for signaling a fault. This ensures trouble-free operation and direct fault detection in the event of a power supply unit or power supply failure.

Product details

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| Operating mode: | Store and Forward |
| Switching engine: | wire-speed / non-blocking |
| Ethernet standards: | <ul style="list-style-type: none"> • IEEE 802.3 (10BaseT) • IEEE 802.3u (100BaseTX) • IEEE 802.3ab (1000BaseTX) • IEEE 802.1p (CoS) • IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex) • Jumbo Frames 9K |
| RJ45 ports: | 8x 10/100/1000BaseT(X) |
| RJ45 - Speed: | Auto-negotiation (10/100/1000 Mbit/s) |
| RJ45 - Duplex: | Half or full duplex |
| RJ45 connection: | MDI/MDIX Auto-Crossover |
| Fault signaling contact: | Fault signaling relay for power supply detection |
| DIP switch: | 1x Flooding Storm Control 1x Power Alarm (fault signaling contact) |
| MAC table size: | 8K |
| Display: | 1x alarm: ALM - Power supply failure 2x Power Status: P1, P2 - Power supply status 8x Ethernet port status: Link & Speed |

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|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Power supply: | Redundant input terminal block connector with reverse polarity protection |
| Voltage range: | 12 to 58 VDC |
| Power consumption: | 55 mA at 48V, 25°C, full load |
| Operating temperature: | -40 °C to +75 °C (cold start at -40 °C) |
| Storage temperature: | -40 °C to +85 °C |
| Humidity: | 5 % to 95 % rH (non-condensing) |
| FCC/EMI: | FCC Part 15 CISPR 22 (EN55022), Class A |
| Vibration: | IEC60068-2-6 |
| Shock: | IEC60068-2-27 |
| Free fall: | IEC60068-2-32 |
| CE (EMS): | IEC61000-4-2 IEC61000-4-3 IEC61000-4-4 IEC61000-4-5 IEC61000-4-6 (Level 3) |
| Approvals: | UL Listed E478628 |
| RoHS and WEEE: | compliant |
| Protection class: | IP30 |
| Execution: | Robust metal housing |
| Dimensions (WxHxD): | 39 mm x 117.8 mm x 96.9 mm |
| Weight: | 439 gram |
| Assembly: | DIN rail or wall mounting |
| Scope of delivery: | Device, terminal strip connector, DIN rail holder, wall mounting bracket, M4 screws, operating and installation instructions |
| Manufacturer: | Wachendorff Prozesstechnik GmbH & Co KG, Germany |



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