

Ethernet switch, 5 ports - ETHSW500



- 5x 10/100 BaseT(X)
- Unmanaged / Plug and Play
- IEEE 802.3, IEEE 802.3u, IEEE 802.3x
- IEEE 802.3az: EEE (Energy Efficient Ethernet)
- 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/ETHSW500>

Description

The ETHSW500 is a very compact and robust Industrial Ethernet switch with 5 x 10/100BaseT(X). It supports 10BaseT according to IEEE 802.3, 100BaseTX according to IEEE802.3u and Flow Control (Ethernet data flow control) according to IEEE802.3x. The compact housing, certified to protection class IP30, was developed for use in harsh and demanding industrial environments where large temperature differences and physical stresses are not unknown.

The ETHSW500 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 fault-free operation and direct fault detection in the event of a power supply unit or power supply failure. By implementing IEEE 802.3az Energy Efficient Ethernet, the energy consumption of ports in idle state can be significantly reduced.

Product details

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 802.3az (EEE) • IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
RJ45 ports:	5x 10/100BaseT(X)
RJ45 - Speed:	Auto-negotiation (10/100 Mbit/s)
RJ45 - Duplex:	Half or full duplex
RJ45 connection:	MDI/MDIX Auto-Crossover / TD/RD Auto-Polarity
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:	1K
Display:	1x alarm: ALM - Power supply failure 2x Power Status: P1, P2 - Power supply status 5x Ethernet port status: Link & Speed

Power supply:	Redundant input terminal block connector with reverse power protection
Voltage range:	12 to 58 VDC
Power consumption:	30 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):	29.1 mm x 112.2 mm x 89.7 mm (without DIN rail holder)
Weight:	330 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

Products Order no.

ETHSW500	5-way Ethernet switch, unmanaged
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Accessories Order no.

DRS4-24A	Power supply unit for DIN rail, 85 to 264 VAC, 24 VDC 4.2 A, screw terminal
CPNLRJ45	RJ45 to RJ45 panel connector / panel front IP 68

KABETH10	Patch cable, RJ45 UTP CCA, CAT5e white, 0.3 m
KABETH11	Patch cable, RJ45 UTP CCA, CAT5e white, 1 m
KABETH12	Patch cable, RJ45 UTP CCA, CAT5e white, 2 m



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