

Color: ■ black metallic

The configurable 852-303 Industrial ETHERNET Switch is equipped with eight ports 10/100BASE-TX and two SFP slots 100BASE-FX/1000BASE-FX/SX (SFP modules are available as an option).

Packaged in a rugged housing, this switch offers both a redundant power supply and relay-based function monitoring. These functions, along with extensive ETHERNET switch options, make it ideal for a wide range of applications.

Features:

- Web-based/SNMP management
- Redundant DC power supply
- Wide supply voltage range: 12 ... 60 VDC
- DIP switch to set alarm functions
- Fully compatible with IEEE 802.3, 802.3u, 802.3z, 802.3x, 802.3ad, 802.3ab, 802.1d, 802.1q, 802.1p, 802.1w and 802.1x standards
- Xpress Ring (redundant ring, recovery < 50 ms)
- Non-blocking, store-and-forward switching, rapid spanning tree protocol (RSTP)
- Autonegotiation at all 10/100BASE-TX ports
- Auto-MDI/MDIX (crossover) at all 10/100BASE-TX ports
- VLAN (802.1q) VID
- IGMP snooping for multicast filtering
- Port configuration, status, statistics
- Port trunking
- SNMP v1/v2 and RMON

| Technical data | |
|----------------------------|---|
| Switching mode | Store-and-forward; non-blocking |
| Number of 100 Mbps ports | 8 |
| Number of 1 Gb/s ports SFP | 2 |
| Communication standards | IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/FX IEEE 802.3z 1000BASE-SX/LX IEEE 802.3x Flow Control IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1Q VLAN Tagging IEEE 802.1ab Link Layer Discovery Protocol (LLDP) IEEE 802.1p Prioritization IEEE 802.1X Port Authentication |
| Redundancy function | Redundant DC power supply; STP; RSTP; MSTP; Jet Ring < 300 ms; Xpress Ring < 20 ms; Dual Homing < 20 ms; Dual Ring; ERPSv2 < 50 ms; LACP |
| Configuration options | DIP switch for signal contact Command Line Interface SNMPv1/v2c/v3 |
| Diagnostics | Signal contact, Modbus/TCP, port status, port statistics, port load, traffic monitor, SFP information, syslog, mail alarm, SNMP traps |
| MAC table (size) | 16000 addresses |
| Jumbo frame size | 10000 bytes |
| Supply voltage | 12 ... 60 VDC; Cable length: < 3 m |



| Technical data | |
|--|--|
| Power consumption (max.) | 12 W |
| Current consumption (max.) | 1500 mA |
| ESD (contact/air discharge) | 8 KV / 15 KV |
| Transmission rate | Copper cable: 10/100 Mbit/s; Fiber optic:1000 Mbit/s |
| Transmission medium (communication/fieldbus) | Copper cable: Cat. 5e or higher, 100 m maximum cable length; Fiber optic: SX Multi-Mode, LX Single-Mode |
| Optical fiber type | Single-mode and multi-mode |
| VLAN | Port-based and tag-based (4k VIDs) |
| Control Elements | 14 x DIP switch: Alarm function power supplies and ports 1 ... 10, 100/1000 Mbps fiber optic ports; 1 x Reset button: system restart |
| Indicators | Device: LED (PWR, RPS, POST) green: Power supply (primary), redundant power supply (secondary), POST function; LED (ALM) red: Alarm; LED (LASER ON) yellow, LED (LNK/ACT, 100) green, LED (OFFLINE) red: Status of fiber optic ports; per port: LED (100, LNK/ACT) green: Status 100 Mbps, LNK/ACT ports 1 ... 8 |

| Connection data | |
|---|--|
| Connection technology: communication/fieldbus | Copper cable: 8 x RJ-45; Fiber optic: 2 x SFP slots (e.g., with SFP module and LC fiber-optic connector) |
| Connection technology: supply | 1 x Built-in male connector: 231-436/001-000; included female connector (MCS Connectors): 2231-106/026-000 |

| Physical data | |
|---------------|-----------------------|
| Width | 50 mm / 1.969 inches |
| Height | 162 mm / 6.378 inches |
| Depth | 120 mm / 4.724 inches |

| Mechanical data | |
|--------------------|----------------|
| Weight | 910 g |
| Color | black metallic |
| Housing material | Aluminum |
| Conformity marking | CE |

| Environmental requirements | |
|--|--------------------|
| Ambient temperature (operation) | -40 ... +70 °C |
| Ambient temperature (storage) | -40 ... +80 °C |
| Protection type | IP30 |
| Relative humidity (without condensation) | 95 % |
| Mounting type | DIN-35 rail |
| Vibration resistance | per IEC 60068-2-6 |
| Shock resistance | per IEC 60068-2-27 |
| EMC immunity to interference | per EN 61000-6-2 |
| EMC emission of interference | per EN 61000-6-4 |
| Fire load | 0.302 MJ |





| Commercial data | | |
|-----------------------|--|---------------|
| PU (SPU) | | 1 pcs |
| Packaging type | | Box |
| Country of origin | | TW |
| GTIN | | 4055143327176 |
| Customs tariff number | | 85176200000 |


| Product classification | | |
|------------------------|--|-------------|
| UNSPSC | | 43222612 |
| eCl@ss 10.0 | | 19-17-01-30 |
| eCl@ss 9.0 | | 19-17-01-06 |
| ETIM 9.0 | | EC000734 |
| ETIM 8.0 | | EC000734 |
| ECCN | | 5A992.C |

| Environmental Product Compliance | | |
|----------------------------------|--|------------------------|
| RoHS Compliance Status | | Compliant,No Exemption |

Approvals / Certificates

| General approvals | | | Declarations of conformity and manufacturer's declarations | | |
|--|------------------------|---------------------|--|----------|------------------|
|   | | | | | |
| Approval | Standard | Certificate Name | Approval | Standard | Certificate Name |
| KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-ISW852 | EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS) | UL 61010-2-201 | E175199 | | | |

Approvals for marine applications

|  | | |
|--|----------|------------------|
| Approval | Standard | Certificate Name |
| DNV DNV GL SE | - | TAA0000239 |



| Downloads | | | |
|--|--|--|-------------------|
| Environmental Product Compliance | | | |
| Compliance Search | | | |
| Environmental Product Compliance 852-303 | | | ↓ |

| Documentation | | | |
|--|-----------------------|---|--|
| Manual | | System Description | |
| Product Manual 8-Port 100BASE-TX + 2-Slot 1000BASE-SX/LX Industrial Switch | V 1.5.0 17.12.2019 | pdf 13868.26 KB | ↓ |
| | | Industrial Switches – General Product Information | pdf 1873.93 KB ↓ |

| Bid Text | | | |
|-------------------------|------------|------------------|-------------------|
| 852-303 | 19.02.2019 | xml 6.15 KB | ↓ |
| 852-303 | 09.05.2018 | docx 18.39 KB | ↓ |
| ausschreiben.de 852-303 | | | ↓ |

| CAD/CAE-Data | | | |
|----------------------|-------------------|---------------------------|-------------------|
| CAD data | | CAE data | |
| 2D/3D Models 852-303 | ↓ | EPLAN Data Portal 852-303 | ↓ |
| | | WSCAD Universe 852-303 | ↓ |
| | | ZUKEN Portal 852-303 | ↓ |

| Runtime Software | | | |
|--------------------------------------|--------------------|--------------------|-------------------|
| Firmware | | | |
| 0852-0303, Industrial-Managed-Switch | V 13 27.02.2024 | zip 10205.89 KB | ↓ |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Cables and connectors

1.1.1.1 Connector plug



Item No.: 750-979/000-011
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 22; Strain relief



Item No.: 750-979/000-021
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568A; AWG 24; Strain relief



Item No.: 750-979/000-012
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 22; Strain relief



Item No.: 750-979/000-022
Connector ETHERNET; RJ-45; Cat. 6A; angled; Code T568B; AWG 24; Strain relief



Item No.: 750-977/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22



Item No.: 750-978/000-011
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 22; Strain relief



Item No.: 750-977/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24



Item No.: 750-978/000-021
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568A; AWG 24; Strain relief



Item No.: 750-977/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22



Item No.: 750-978/000-012
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 22; Strain relief



Item No.: 750-977/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24



Item No.: 750-978/000-022
Connector ETHERNET; RJ-45; Cat. 6A; straight; Code T568B; AWG 24; Strain relief



Item No.: 750-979/000-013
Connector PROFINET; RJ-45; Cat. 6A; angled; AWG 22; Strain relief



Item No.: 750-977/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22



Item No.: 750-978/000-013
Connector PROFINET; RJ-45; Cat. 6A; straight; AWG 22; Strain relief



Item No.: 750-976
PROFINET RJ-45 connector, IP20; ETHERNET 10/100 Mbit/s; for field assembly

1.1.2 Interface module

1.1.2.1 Interface module



Item No.: 289-195
Interface module; RJ-45; IDC technology; Cat. 6; in mounting carrier; with shield connection

1.1.3 Plug

1.1.3.1 SFP module



Item No.: 852-1210
SFP Module 1000BASE; LX Single-Mode 1310 nm LC; 10 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-1200
SFP Module 1000BASE; SX Multi-Mode 850 nm LC; 0.55 km; Extended temperature range; DDM; silver-colored



Item No.: 852-1280
SFP Module 1000BASE; ZX Single-Mode 1550 nm LC; 80 km; Extended temperature range; Digital Diagnostics Monitoring; silver-colored



Item No.: 852-201/107-002
SFP Module 100BASE; FX Multi-Mode 1310 nm LC; 2 km; silver-colored



Item No.: 852-201/107-030
SFP Module 100BASE; LX Single-Mode 1310 nm LC; 30 km; silver-colored



1.1.4 Power supply

1.1.4.1 Power supply



Item No.: 787-1602
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal



Item No.: 787-1632
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact



Item No.: 787-1606
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal



Item No.: 787-1622
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact



Item No.: 787-1635
Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact



Item No.: 787-1623
Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal



Item No.: 787-1633
Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact