

Color: ■ black

This unmanaged industrial ETHERNET switch (852-1102) has 8 Gigabit ETHERNET ports for easily setting up small- to medium-sized networks. Its slim design paired with a DIN-rail adapter simplifies installation in the control cabinet and provides high vibration and shock resistance. Additionally, auto-matic transmission rate detection (auto-negotiation) and automatic identification of the transmit and receive lines (Auto MDI-X) allow simple plug-and-play operation, saving time and money during commissioning.

Status LEDs, a redundant power supply and an alarm contact (configurable via DIP switch) increase the switch's redundancy and diagnostic capabilities, providing higher operational uptime.

Features:

- Redundant DC power supply
- Large supply voltage range: 9 ... 57 V
- DIP switch to set alarm functions
- Full compliance with IEEE 802.3, 802.3u and 802.3ab standards
- Non-blocking, store-and-forward switching
- Auto-negotiation at all 10/100/1000BASE-T ports
- Auto-MDI/MDIX (crossover) at all 10/100/1000BASE-T ports
- Integrated address look-up table, supports up to 8000 absolute MAC addresses
- Overvoltage protection
- Prioritization of ETHERNET data packets (PROFINET protocol, EtherType=0x8892) per IEEE802.1p

Technical data	
Switching mode	Store-and-forward; non-blocking
Number of 1 Gb/s ports	8
Communication standards	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3x Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.1p Prioritization
Redundancy function	Redundant DC power supply
Configuration options	DIP switch for signal contact
Diagnostics	Signal contact
MAC table (size)	8000 addresses
Jumbo frame size	9000 bytes
Supply voltage	9 ... 57 VDC
Power consumption (max.)	6 W
Current consumption (max.)	1000 mA
ESD (contact/air discharge)	8 KV / 15 KV
Transmission rate	Copper cable: 10/1000 Mbit/s
Transmission medium (communication/fieldbus)	Copper cable: Cat. 5e or higher, 100 m maximum cable length
Control Elements	10 x DIP switch: Alarm function power supplies and ports 1 ... 8






Technical data		
Indicators		Device: LED (PWR, RPS) green: Power supply (primary), redundant power supply (secondary); LED (ALM) red: Alarm; per port: LED (1000, LNK/ACT) green: Status 1000 Mbps, LNK/ACT ports 1 ... 8
Connection data		
Connection technology: communication/fieldbus		Copper cable: 8 x RJ-45
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		105 mm / 4.134 inches
Depth		120 mm / 4.724 inches
Mechanical data		
Weight		543 g
Color		black
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		4055143500173
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		NO US CLASSIFICATION





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
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852			
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 61010-2-201	E175199			



Approvals for marine applications

 		
Approval	Standard	Certificate Name
DNV DNV GL SE	-	TAA00002YN
LR Lloyds Register	-	LR23415635TA

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 852-1102	

Documentation

Manual				System Description	
Product Manual 8-Port 1000BASE-T Industrial Switch	V 1.3.0 15.04.2021	pdf 1392.35 KB		Industrial Switches – General Product Infor- mation	pdf 1873.93 KB 



Bid Text			
852-1102	19.02.2019	xml 4.92 KB	↓
852-1102	09.05.2018	docx 17.55 KB	↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 852-1102 ↓	EPLAN Data Portal 852-1102 ↓
	ZUKEN Portal 852-1102 ↓

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 Power supply

1.1.3.1 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.: 787-1102
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC-OK LED



Item No.: 787-1112
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED



Item No.: 787-1122
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current; DC-OK LED



Item No.: 787-1702
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED



Item No.: 787-1712
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED



Item No.: 787-1722
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED