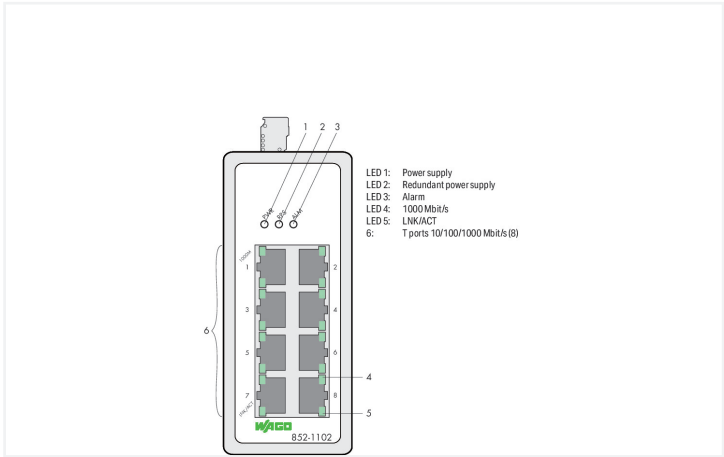




Color: ■ black

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, automatic 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 PROFINET Conformance Class A (CC-A)
Redundancy function	Redundant DC power supply
Configuration options	DIP switch for signal contact
Diagnostics	Signal contact Alarm contact; Alarm relay; NO; 1 A at 24 VDC
MAC table (size)	8000 addresses
Jumbo frame size	9000 bytes
Supply voltage	9 ... 57 VDC; CE, UL; 24 VDC (DNV GL); 12, 24, 48 VDC (LR)
Power consumption (max.)	6 W

Technical data

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
Topology	Star, tree and line topology
Control Elements	10 x DIP switches: alarm function for supply voltages and ports 1 ... 8
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
Note on protection type	Use per UL 61010: Indoor
Pollution degree	2 per UL 61010
Relative humidity (without condensation)	95 %
Mounting type	DIN-35 rail
Mounting (note)	Compass safe distance: > 40 cm
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	0.203 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 10.0	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
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Approvals for marine applications

 		
Approval	Standard	Certificate Name
DNV DNV GL SE	-	TAA00002YN
LR Lloyds Register	-	LR2631713TA

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 Information	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; ETHER-NET 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 out-
put 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 out-
put current; DC-OK LED



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



Item No.: 787-1712
Switched-mode power supply; Eco; 1-
phase; 24 VDC output voltage; 2.5 A out-
put 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