

## Industrial 8-port unmanaged 100M Ethernet Switch DIN Rail Center SH-8008F-2



\* Specifications, color and design of the products are subject to change without notice.

### Features

With its compact size, it corresponds to 100BASE-TX in eight all ports. This product contains eight ports for IEEE802.3u (100BASE-TX)/IEEE802.3(10BASE-T) in the compact size(40(W) x 70(D) x 90(H) mm).

#### 2-way power connector and reverse wiring protection within

The product supports 2-way power supply. Even when one of the power systems fails during the operation, the product continues functioning. Our safety design supports the product to function even when wires are connected in reverse.

#### Adaptable to a wide range of temperature between -20 and +60°C

The product is capable of operating in the temperature between -20 and + 60°C. It can be installed in the various environments.

#### Installation on DIN rail is possible.

As the product is mounted on the 35mm DIN rail, removing and replacing are easy as well.

#### Compatible with 8 - 35VDC wide range power

It is compatible with 8 - 35VDC wide range power and can be used in various power environment. In addition, An FG terminal is equipped in the power connector.

### Included Items

Product ...1

Power Connector ... 2 (Attached to the Product)

Please read the following ... 1

### Optional Products

Item	Model	Description
AC adapter	POA201-10-2	AC adapter (12VDC, 1A)

\* Visit the CONTEC website for the latest optional products.

This product is an 100Mbit compact-sized industrial switching HUB (8 ports).

This hub can be used in the places where the quietness or a longer lifetime of the product is desired. Furthermore, a metal housing with excellent heat dissipation enables the product to be operated in the temperature between -20°C and +60°C.

This product has been arranged so that the DIN rail position is in the center, compared to the previous model. As a result, it can be installed in a variety of control panel.

- \* The contents in this document are subject to change without notice.
- \* Visit the CONTEC website to check the latest details in the document.
- \* The information in the data sheets is as of December 2023.

### Specifications

#### Function specification

Item	Specifications
Ethernet standards	IEEE802.3/IEEE802.3u
Data transfer rate	10Mbps/100Mbps (auto-negotiation)
Communications method	All ports: Full/Half duplex (auto-negotiation)
Flow control	Full Duplex: IEEE802.3x compliant flow control Half Duplex: Back pressure
Number of effective ports	8
Switching method	Store and forward
Filtering speed	8,130pps (at 10Mbps) / 148,800pps (at 100Mbps)
Forwarding speed	8,130pps (at 10Mbps) / 148,800pps (at 100Mbps)
Address table	1,024 entries
Buffer capacity	448Kbits
Aging time	300sec (Max)
LED indicator	POWER(Green), LINK/ACT (Green), SPEED 10/100M (Orange)
Power supply voltage *1	8V - 35VDC±5%
Hybrid supply system *2	Enable
Reverse polarity protection	Enable
FG pin	Power supply connector equipped with FG pin
Power consumption	When inputting 8V: 0.18A (Max), When inputting 35V: 0.04A (Max)
Physical dimensions (mm)	40(W) x 70(D) x 90(H) (exclusive of protrusions)
Weight	250g
Module installation method	Mounting on DIN rail or on the wall

\*1 Use the F&EIT series AC adapter [POA201-10-2 (recommended)] or a commercially available stabilized power supply.

\*2 This product can operate with a single power supply. Also, you can add redundancy to the power supply by adding a second power supply input.

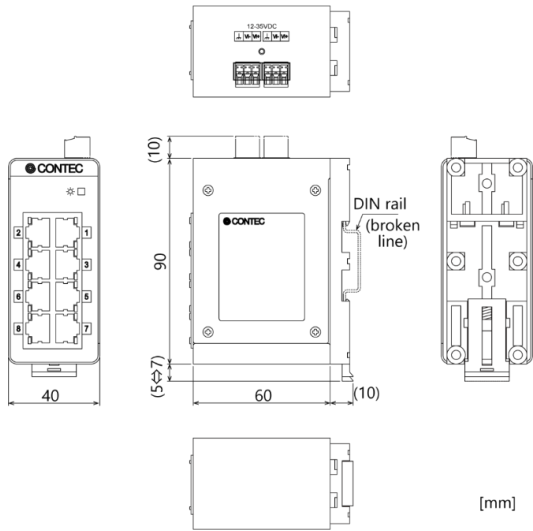
#### Installation Environment Requirements

Item	Description
Operating ambient temperature	-20 - +60°C *3
Operating ambient humidity	10 - 90%RH (No condensation)
Non-operating ambient temperature	-20 - +60°C
Non-operating ambient humidity	10 - 90%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-Noise resistance	Line-noise AC line/ 2KV (EN61000-4-4Level 3, IEC61000-4-4Level 3), Signal line/ 1KV (EN61000-4-4Level 3, IEC61000-4-4Level 3)
	Static electricity resistance Contact discharge/4KV (EN61000-4-2Level 2, IEC61000-4-2Level 2) Air discharge/8KV (EN61000-4-2Level 3, IEC61000-4-2Level 3)
Vibration resistance	Sweep resistance 10 - 57Hz/semi-amplitude 0.15mm/57 - 150Hz/(2G), 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance	15G, half-sine shock for 11ms in X, Y, and Z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)

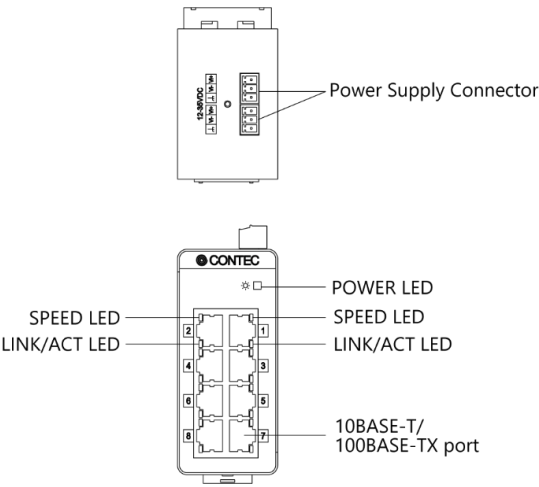
Item	Description
Grounding	Class D grounding, SG - FG/ non-conductive
Standard	VCCI Class A, FCC Class A, UL, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

\*3 POA201-10-2 of the optional products is capable of operating in the temperature between 0 and +40°C.

Physical Dimensions



Component Name



Differences from Conventional Products

Differences between the SH-8008F-2 and SH-8008F

The SH-8008F-2 has the following differences from the conventional SH-8008F :

Item	SH-8008F-2	SH-8008F
Physical dimensions (mm)	40(W) x 70(D) x 90(H) (exclusive of protrusions)	40(W) x 60(D) x 90(H) (exclusive of protrusions)