

10/100/1000M AUTO-MDIX  
Industrial Switching HUB. DIN-rail mounting, 8 ports  
**SH-9008H-FIT**



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

**Features**

**Compact-sized (39 (W) × 120 (D) × 94 (H) mm) unit equipped with 8 ports capable of 1000BASE-T**

The compact-sized unit enclosure (39 (W) × 120 (D) × 94 (H) mm) is equipped with the 8 ports that are compliant with IEEE802.3ab (1000BASE-T)/IEEE802.3u (100BASE-TX)/IEEE802.3 (10BASE-T). With fan less configuration, this product is suitable for places where silence is required. In addition, the adoption of metal casing with great radiation performance provides the operating ambient temperature of 0 to 50°C.

**For jumbo frame**

It is compatible with Jumbo Frame that increases transfer rate. Connection with Jumbo Frame compatible devices increases data transfer rate and contributes to increased transfer rate and reduced CPU load.

**Auto MDI/MDI-X feature, auto-negotiation feature**

The Auto MDI/MDI-X feature can automatically recognize the cable type, straight-through cable or crossover cable, to prevent problems using the wrong cable type. Also, the auto-negotiation feature can automatically recognize and choose the best communication rate (10/100/1000Mbps) and method (half/full duplex) available.

**Automatic power adjusting function**

This function can automatically adjust the power consumption of unused ports, enabling reduced power consumption by up to 60%. \*1

**Flexible installation orientation**

The unit is equipped with a 35mm DIN rail mounting mechanism as standard. Also, the mounting brackets provided with the unit make installation in any orientation possible (floor, ceiling, etc.).

**Capable of running on a wide range of input voltages (12 to 24VDC)**

The unit will function normally even if input voltage fluctuates within the acceptable range. In addition, the power connector includes an FG terminal.

\*1 The comparison result of measured values when all (eight) ports are in operation with those when all (eight) ports are unused.

SH-9008H-FIT is a compact-sized [39(W) × 120(D) × 94(H) mm] industrial switching HUB unit that is compliant with the IEEE802.3ab (1000BASE-T)/IEEE802.3u (100BASE-TX)/IEEE802.3 (10BASE-T) standards.

Its features include Jumbo Frame support, AutoMDI/MDI-X, auto-negotiation, and automatic power adjusting function. The automatic power adjusting function can reduce the power consumption by up to 60%. \*1

With fan less configuration, SH-9008H-FIT is suitable for places where silence is required. In addition, the adoption of metal casing with great radiation performance enables the unit to be used in ambient temperatures of 0 to 50°C. A DIN rail mounting mechanism and the mounting brackets provided with the unit enable various types of installation.

Please read this manual carefully so that you can build a system by connecting the switching HUB unit to external devices.

\*1 The comparison result of measured values when all (eight) ports are in operation with those when all (eight) ports are unused.

**Specification**

**Specifications**

Item	Specification
Ethernet standards	IEEE802.3/IEEE802.3u /IEEE802.3ab –compliant
Data transfer rate	10Mbps/100Mbps/1000Mbps (auto-negotiation)
Access method	CSMA/CD
Communications method	All ports: Full/Half duplex (auto-negotiation)
Topology	Star topology
Flow control	Full Duplex : IEEE802.3x compliant flow control Half Duplex :Back pressure
Number of effective ports	8
Switching method	Store and forward
Address table	8,192 entries
Jumbo frame*1	9.6Kbyte
Buffer capacity	512Kbyte
Aging time	300sec (Max.)
LED indicator	POWER(Green), LINK/ACT 10M(Yellow), LINK/ACT 100M(Green), LINK/ACT 1000M(Green)
Power supply voltage	12V - 24VDC±5%
FG pin	Power supply connector equipped with FG pin
Power consumption (Max.)	When inputting 12V : 0.65A, When inputting 24V : 0.35A
Physical dimensions (mm)	39(W) × 120(D) × 94(H) (exclusive of protrusions)
Weight	360g (410g when the DIN rail fixation metal fittings(standard) or the flat putting fixing bracket is installed)
Module installation method	One-touch attachment of a 35mm DIN rail. (Mounting mechanism is equipped with the main body as standard), Fixation with the mounting phase by using the flat putting fixing bracket and rubber feet.

\*1 When using Jumbo Frame, it is necessary for other network devices on the communication route to be Jumbo Frame compatible.

**Installation Environment Requirements**

Item	Specification
Operating temperature	0 - 50°C
Storage temperature	-10 - 60°C
Humidity	10 - 90%RH(No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-Noise resistance	Line-noise AC line/2kV, Signal line/1kV (JIS C61000-4-4Level 3, EN61000-4-4Level 3)
	Static electricity resistance Contact discharge/4kV (JIS C61000-4-2Level 2, EN61000-4-2Level 2) Atmospheric discharge/8kV (JIS C61000-4-2Level 3, EN61000-4-2Level 3)
Vibration resistance	Sweep resistance 10 - 57Hz/semi-amplitude 0.15mm,57 - 150Hz/2.0G 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Impact resistance	15G, half-sine shock for 11ms in X, Y, and Z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)
Grounding	Class D grounding (previous class 3 grounding)
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

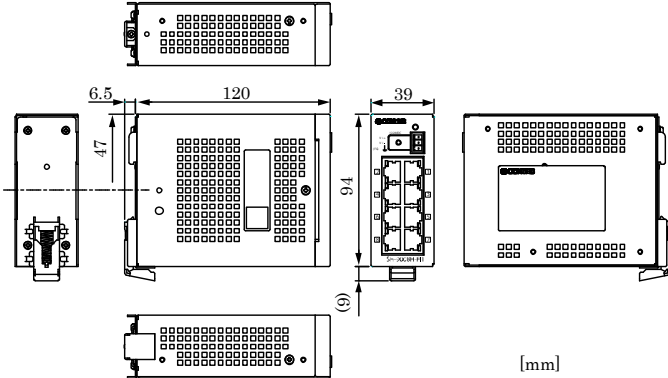
## Product Configuration List

Name	Pcs.
Unit	1
Setup Guide	1
Acceptable connector	1
Connector omission prevention metal fittings	1
Flat putting fixing bracket	2
Fixed screw M3×6	5
Rubber foot	4

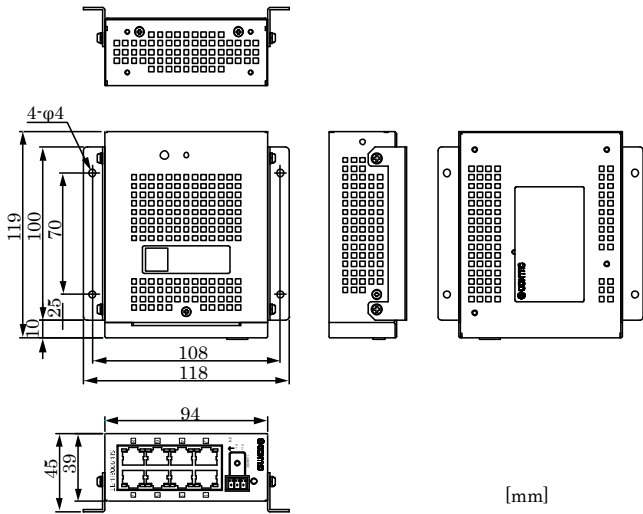
\* The manual of this product can be downloaded from CONTEC homepage (<http://www.contec.com/>) free of charge.

## Physical Dimensions

Din rail fixation metal fittings (standard) are installed



Flat putting fixing brackets is installed



## Differences from SH-9008-FIT

	SH-9008-FIT	SH-9008H-FIT
Capacity of buffer	176Kbyte	512Kbyte
Power consumption (Max.)	For 12V input : 0.6A, For 24V input : 0.4A	For 12V input : 0.65A, For 24V input : 0.35A