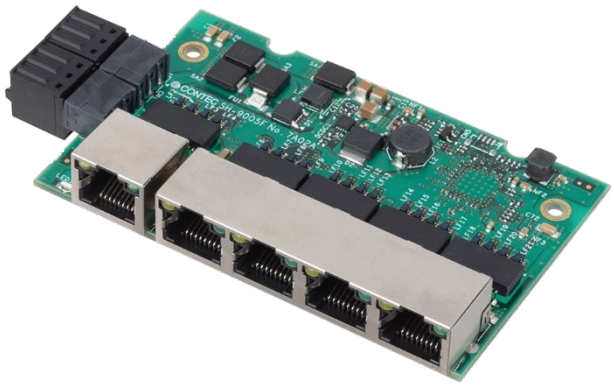
1000M Industrial Switching HUB Embedded, 5 ports

SH-9005F-E



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

This product is a compact industrial 5-port switching hub board supporting 1000M.

In addition, the Auto MDI/MDI-X features automatic negotiation.

An ideal product for the place where quietness is required as it contains no fan. The product can operate in the temperature between -20 and + 60°C. There are two supplies of power, and function that prevents power from connecting in reverse.

When you build a system incorporating this product, read this Reference Manual carefully, and check the connection with external devices and installation conditions.

* 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 September, 2026.

Features

Five of 1000BASE-T ports are equipped

The product has five ports which conform to IEEE802.3ab(1000BASE-T) / IEEE802.3u(100BASE-TX)/ IEEE802.3(10BASE-T).

As a compact switching hub board for industrial applications, it is suitable for integration into customers' equipment.

Capable of operating in a wide-ranged power inputs, and features dual power support

The product is capable of operating in a wide range of DC power between 8 and 35VDC. Moreover, dual power supports the product to continue to work even if one of the power supplies fails. It features a safety design that ensures normal operation even if the power supply is connected in reverse, and the power connector is equipped with an FG terminal.

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

With a wide range of temperature (-20 to +60°C) specifications, providing superior environmental resistance and durability, and allowing dependable use in harsh industrial environments.

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	Input: 90 - 264VAC, Output: 12VDC 1.0A
Power extension connector	SH-CN-P1	AC Adapter Extension Connector

* Visit the CONTEC website for the latest optional products.

Specifications

Function specification

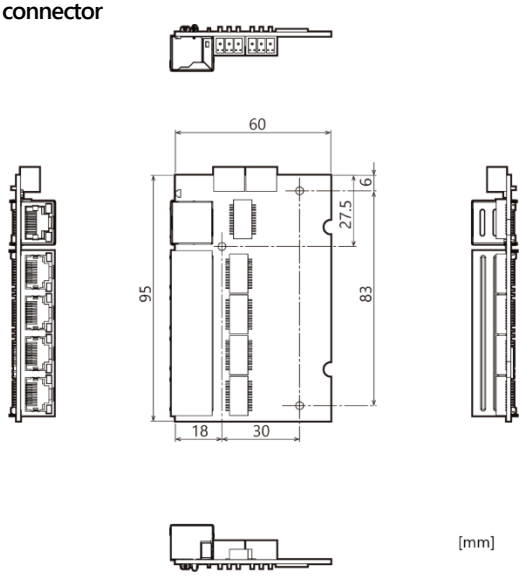
Item	Specifications
Ethernet standards	IEEE802.3/IEEE802.3u/IEEE802.3ab-compliant
Data transfer rate	1000Mbps/100Mbps/10Mbps (auto-negotiation)
Communications method	All ports : Full/Half duplex (auto-negotiation)
Flow control	Full Duplex : IEEE802.3x compliant flow control Half Duplex : Back pressure
Number of effective ports	5
Switching method	Store and forward
Address table	2,048 entries
Jumbo frame	9Kbyte
Buffer capacity	1Mbyte
Aging time	300sec (Max.)
LED indicator	POWER x 1 (Green), 1000M LINK/ACT x 5 (Green), 100M/10M LINK/ACT x 5 (Yellow)
Power supply voltage	8V - 35VDC±5%
FG pin	Power supply connector equipped with FG pin
Current consumption (Max.)	When inputting 8V : 0.36A(Max.), When inputting 35V : 0.08A(Max.)
Physical dimensions (mm)	95(W)×60(D)×14.8(H) (exclusive of protrusions)
Weight	100g

Installation Environment Requirements

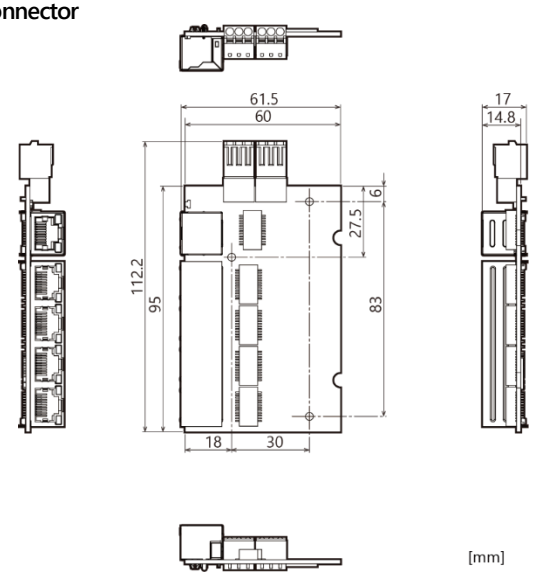
Item		Description
Operating ambient temperature		-20 - +60°C
Operating ambient humidity		10 - 90%RH (No condensation)
Non-operating ambient temperature		-20 - +60°C
Non-operating ambient humidity		10 - 90%RH (No condensation)
Floating dust particles		Not to be excessive
Corrosive gases		None
Line-Noise 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	Indirect Discharge /±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	10 - 57Hz/semi-amplitude 0.15mm,57 - 150Hz/9.8M/s^2(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)
Grounding		Class D grounding, SG - FG/ non-conductive
Standard		VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA

Physical Dimensions

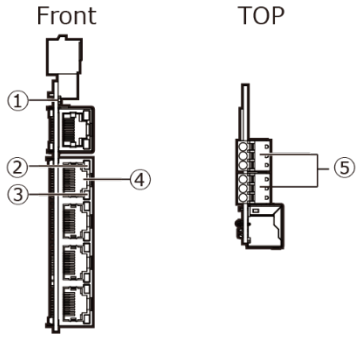
Without connector



With connector



Component Name



No.	Name	No.	Name
1	Power LED	4	LAN Port
2	Speed LED	5	Power Supply Connector
3	LINK/ACT LED		