Industrial 8-port unmanaged Gigabit PoE Ethernet Switching HUB

SH-9008AT-POE2

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

This product is an eight-port, industrial switching hub that conforms to IEEE 802.3af/at and is capable of PoE power supply.

You can use Category 5 or higher LAN cables to supply power from up to seven ports to devices that conform to IEEE 802.3af/at.

The SH-9008AT-POE2 can supply up to 30 W per port and up to 105 W * over all ports.
Various fixing brackets are available for installations on walls and 35 mm DIN rails.
The dedicated cascade connection port allows the hub to be expanded through these connections when the number of ports on a single hub is insufficient.
Due to the fan-less design, this hub can be used in the places where the quietness or a longer lifetime of the product is desired.
Carefully read this Reference Manual to connect the product with devices and establish the system.

* The supplied power will be limited by the power supply input voltage.

* 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 August, 2024.

Features

PoE power supply function based on IEEE802.3af, IEEE802.3at
Power can be supplied to PoE devices that conform to IEEE802.3af, IEEE802.3at of maximum 7ports. Up to 30W per port and up to 105W * for all ports can be powered.

*There is a limit to supply the power depending on the power input voltages.

Eight of 1000BASE-T ports are equipped
The product has eight ports * which conform to IEEE802.3ab(1000BASE-T) / IEEE802.3u(100BASE-TX)/ IEEE802.3(10BASE-T).

Due to the fan-less design, this hub can be used in the places where the quietness or a longer lifetime of the product is desired.

* Including the dedicated cascade connection port on the product

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 12 and 54VDC. Moreover, dual power supports the product to continue to work even if one of the power supplies fails.

DIN rail mounting or Wall installation
With the supplied brackets, the product can be set on a 35mm-DIN rail or on the wall.

Cascade port
One of the eight Ethernet ports supports cascade connections, ensuring safe operation even when using cascade connections to link multiple instances of this product.

Included Items

Product [SH-9008AT-POE2] ...1
DIN-Rail Mounting Bracket ... 1 (attached to the product)
Power Connector ... 1 (Dinkle : 2ESDV-06P)
Roun Head Screw (M3) ... 8
Flat Head Screw (M3)...2 (attached to the product)
Wall Bracket...2
Please Read the following...1

Specifications

Function specification

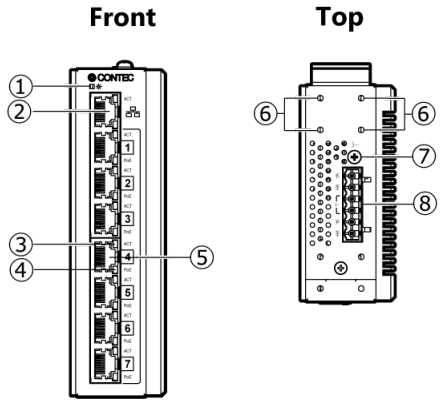
Item	Specifications
Ethernet standards	IEEE802.3/IEEE802.3u/IEEE802.3ab/IEEE802.3af/ IEEE802.3at *1 –compliant
Data transfer rate	10Mbps/100Mbps/1000Mbps (auto-negotiation)
Communications method	All ports: Full/Half duplex (auto-negotiation)
Flow control	Full Duplex : IEEE802.3x compliant flow control Half Duplex : Back pressure
Number of effective ports	8
Number of PoE output ports	7
Switching method	Store and forward
Address table	4,096 entries
Jumbo frame	9Kbyte
Buffer capacity	192Kbyte
Aging time	300 seconds
LED indicator	POWER x1 (Green), ACT x 8 (Green), PoE x 7 (Yellow)
Power supply voltage	12V - 54VDC±5%
FG pin	Power supply connector equipped with FG pin
Current consumption (Max.)	When PoE is not in use: 12V 0.42A (Max.), 24V 0.23A (Max.), 57V 0.10A (Max.) When PoE is in use: 12V 5.55A (Max.), 24V 5.25A (Max.), 57V 2.24A (Max.)
Physical dimensions (mm)	41(W)×95(D)×144(H) (exclusive of protrusions)
Weight	700g
Module installation method	Mounting on DIN rail or on the wall

*1 When the supplied voltage is 24VDC-54VDC: The maximum power by PoE is 105W in total for all ports.
When the supplied voltage is less than 24VDC-54VDC: The maximum power by PoE is 60W in total for all ports.

Installation Environment Requirements

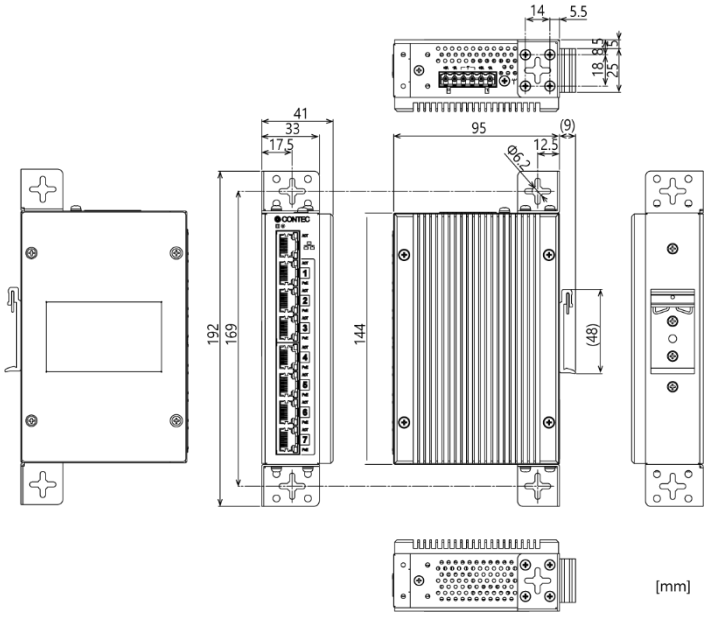
Item		Description
Operating ambient temperature		-40 - +60°C When the supplied voltage is 24VDC to 54VDC: The maximum power by PoE is 105W in total for all ports. When the supplied voltage is less than 24VDC: The maximum power by PoE is 60W in total for all ports.
		-40 - +65°C When the supplied voltage is 24VDC to 54VDC: The maximum power by PoE is 78W in total for all ports. When the supplied voltage is less than 24VDC: The maximum power by PoE is 45W in total for all ports.
		-40 - +70°C When the supplied voltage is 24VDC to 54VDC: The maximum power by PoE is 55W in total for all ports. When the supplied voltage is less than 24VDC: The maximum power by PoE is 30W in total for all ports.
Operating ambient humidity		10 - 90%RH (No condensation)
Non-operating ambient temperature		-45 - +70°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, 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/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

Component Name



No.	Name	No.	Name
1	Power LED	5	LAN Port
2	Cascade Port	6	Bracket Screw Holes for Wall Installation (M3)
3	Act LED	7	FG pin (M3)
4	PoE LED	8	Power Supply Connector

Physical Dimensions



Differences between the SH-9008AT-POE2 and SH-9008AT-POE

Item		SH-9008AT-POE	SH-9008AT-POE2
Number of PoE output ports		8	7
Current consumption		When PoE is not in use: 12V 0.51A (Max.), 24V 0.26A (Max.), 57V 0.11A (Max.) When PoE is in use: 12V 7.56A (Max.), 24V 7.22A (Max.), 57V 3.04A (Max.)	When PoE is not in use: 12V 0.42A (Max.), 24V 0.23A (Max.), 54V 0.10A (Max.) When PoE is in use: 12V 5.55A (Max.), 24V 5.25A (Max.), 54V 2.24A (Max.)
Physical dimensions (mm)		41(W)×94.9(D)×144.3(H)	41(W)×95(D)×144(H)
Power supply relay output		Function available	Function not available
Vibration resistance	Seep resistance	10 - 57Hz/semi-amplitude 0.075mm,57 - 150Hz/9.8M/s^2(1G), 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)	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		10G, half-sine shock for 11ms in X, Y, and Z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)	15G, half-sine shock for 11ms in X, Y, and Z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)