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1. Summary

Switch-M8eG is an all Giga bit Ethernet Switch equipped with eight 10BASE-T/100BASE-TX/1000BASE-T ports and one SFP extension slot with a management function.

2. Feature

- (1) Fanless design solves noise problem or fan failure.
- (2) Has a loop detection function, which notifies when a loop occurs with the corresponding port LED and automatically shuts down the looped port.
 In addition, when a port is shut down and when it automatically recovers, an SNMP trap can be sent to notify the administrator.
- (3) Has a loop detection history function, which notifies when a loop occurs with the corresponding LED and enables a network administrator to identify the looped port after the loop is removed.
- (4) Embedded power saving mode detects the connection status automatically and saves power consumption to minimum.
- (5) Use of LED indicator switching button saves power consumption of LED lamps.
- (6) Ports 1 to 8 are auto negotiation-ready 10/100/1000BASE-T ports. Their speed and communication mode can be changed by configuration.

Port 9 can be exclusively used as an SFP extension slot.

- (7) All twisted pair ports support straight/cross cable auto sensing function. Simply connect devices with straight cables, whether it is a terminal or a network device. (This function does not work if the port communication configuration is set at Fixed or Link Aggregation. Ports 1 to 7 are set at MDI-X. (default))
- (8) VLAN function allows free grouping of up to 256 VLANs.
- (9) The IEEE802.1p compatible QoS function is supported.
- (10) Has an Internet Mansion function, which ensures security between each door.
- (11) Has a port grouping function, which groups ports that are allowed to communicate with one another to limit communications between different groups.
- (12) Equipped with energy efficient Ethernet (EEE) conforming to IEEE802.3az (LPI).

 When there is no data transmission at link up, the energy-saving state automatically starts so that power consumption can be reduced on each port.
- (13) The IEEE802.1X compatible user authentication function (EAP-MD5/TLS/PEAP) is supported.
- (14) Supports ZEQUO assist Plus. Processes from introduction to maintenance can be performed easily.

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3. Rated/Environmental Conditions

3-1. Power supply	AC100-240V, 50/60Hz, 0.5A (with a built-in power supply)		
3-2. Power consumption	Normally, Max: 5.9W, Min: 2.4W		
3-3. Operating environment	Temperature: 0 - 50℃ Humidity: 20 - 80%RH (no condensation)		
3-4. Storage environment	Temperature: -20 - 70°C Humidity: 10 - 90%RH (no condens	ation)	
3-5. Immunity	ESD Radiated EFT/Burst Surge Conducted Power frequency magnetic field Voltage dips and interruptions	:IEC61000-4-2 (10kV) :IEC61000-4-3 Level2 :IEC61000-4-4 Level3 :IEC61000-4-5 Level4 (AC line) :IEC61000-4-6 Level2 :IEC61000-4-8 Level4 :IEC61000-4-11	

4. Form

4-1. Form and materials/colors	Dimensions Case material Color	:44mm (Height) ×210mm (Width) ×130mm (Depth) (Excluding protruding sections) :SECC : Main unit: Green 03, Front face: Black 03, Face plate label: Black 04	
4-2. Mass (Weight)	1,100g	1 doo place labor. Black of	\neg

5. Hardware Specifications

Twisted pair port 1-8	:RJ45 connector (*1)
Transmitting and receiving network	rk system:
	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX
	IEEE802.3ab 1000BASE-T
Transmission speed	:10/100Mbps, full/half duplex
	:1000Mbps, full duplex
Compatible cable	:Twisted pair cable
•	(At least equivalent to EIA/TIA568 category 5e)
Maximum transmission distance	:100m
Auto-Negotiation	:Communication speed and full/half duplex are
	automatically recognized.
	The setting can be fixed to 10Mbps, 100Mbps,
	and full duplex or half duplex.
*1 Embedded power saving mod	e detects the connection status automatically
and saves power consumption	n to minimum.
SFP extension slot 9	
SFF-8472 (DMI: Diagnostic Monit	coring Interface)
*Select either of RJ45 or SFP for	use
Optional Accessories	:1000BASE-SX SFP Module (PN54021K-MY)
	1000BASE-LX SFP Module (PN54023K-MY)
Switching method	:Store and Forward
Switching capacity	:18Gbps
Packet transfer capability	:Non-blocking
	Max 1,488,000pps/port (1000Mbps)
	Max 148,800pps/port(100Mbps)
	Max 14,880pps/port (10Mbps)
MAC Address table	:Max 8K entry/unit
Buffer memory	:512K Byte/unit
Flow control	:half-duplex Back pressure
	full-duplex IEEE802.3x
Aging timeout	:10 to 1,000,000 sec. (Default: 300 sec.)
Jumbo frame supported	:9KB
Transmittable frames	:EAP,BPDU
	Transmitting and receiving netwo Transmission speed Compatible cable Maximum transmission distance Auto-Negotiation *1 Embedded power saving mod and saves power consumptio SFP extension slot 9 SFF-8472 (DMI: Diagnostic Monit *Select either of RJ45 or SFP for Optional Accessories Switching method Switching capacity Packet transfer capability MAC Address table Buffer memory Flow control Aging timeout Jumbo frame supported

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connection Transmission mode Emulation mode Communication configuration Transmission mode Emulation mode Communication configuration Stop bit 1 bit (1) POWER(Power) LED Green Light : Power is ON Off : Power is OFF (2) ANY COL.(Collision) LED Orange Light : During half-duplex operation, packet collision is occurring in either port. (3) STATUS/ECO (Status/ECO made) LED Green Light : Operating in status mode. Green Blink : Operating in ECO mode. All port LEDs (left) are turned off. Orange Light : Starting Orange Blink : Malfunction (Contact the seller) Off : Power is OFF. (4) GIGA (GIGA mode) LED Display of each	5-3. Terminal emulator	Console port	:RJ45 connector 1 port
Stop bit 1 bit (1) POWER(Power) LED Green Light : Power is ON Off : Power is OFF (2) ANY COL.(Collision) LED Orange Light : During half-duplex operation, packet collision is occurring in either port. (3) STATUS/ECO (Status/ECO made) LED Green Light : Operating in status mode. Green Blink : Operating in ECO mode. All port LEDs (left) are turned off. Orange Light : Starting Orange Light : Starting Orange Light : Starting Green Light : Operating in GIGA mode. (5) 100M (Speed mode) LED Green Light : Operating in DUPLEX mode. (6) FULL (DUPLEX mode) LED Green Light : Operating in DUPLEX mode. (7) LOOP HISTORY(Loop History mode) LED Green Light : Operating in DUPLEX mode. (7) LOOP HISTORY(Loop History mode) LED Green Light : Operating in Loop History mode. Green Blink : Loop is occurring, or occurred within the last 3days. You can display the following items using the LED display change button. Display for the connection with a connected terminal (Status mode), Display for the 1000 Mbps transmission rate (GIGA mode), Display for the 1000 Mbps transmission rate (Speed mode), Display for the full-duplex or half-duplex transmission rate (Speed mode), Display for ports with a loop history (Loop history mode) at the start is called "Base mode". The mode at the start is called "Base mode". There are two types of Base modes : Status mode (factory default setting) and ECO mode. You can change the Base mode by holding down the LED display chang button (for at least 3 sec). When the Base mode is changed normally, all STATUS/ECO, GIGA, 100M, and FULL LED lamps light up at the same time. When you release the button, the Base mode is changed to the selected mode. If the mode is changed to the GIGA mode, Speed mode, DUPLEX mode, or Loop History mode and the LED displays witch button is not used for one minute o longer, the mode as maintained even after the power is turned OFF.		Transmission mode Emulation mode	:RS-232C (ITU-TS V.24) :VT100
Green Light : Power is ON Off : Power is OFF (2) ANY COL.(Collision) LED Orange Light : During half-duplex operation, packet collision is occurring in either port. (3) STATUS/ECO (Status/ECO made) LED Green Light : Operating in status mode. Green Blink : Operating in ECO mode. All port LEDs (left) are turned off. Orange Light : Starting Orange Blink : Malfunction (Contact the seller) Off : Power is OFF. (4) GIGA (GIGA mode) LED Green Light : Operating in GIGA mode. (5) 100M (Speed mode) LED Green Light : Operating in Speed mode. (6) FULL (DUPLEX mode) LED Green Light : Operating in DUPLEX mode. (7) LOOP HISTORY (Loop History mode) LED Green Light : Operating in Loop History mode. Green Blink : Loop is occurring, or occurred within the last 3days. You can display the following items using the LED display change button. Display for the connection with a connected terminal (Status mode), Display for the 100Mbps or 10 Mb transmission rate (GIGA mode), Display for ports with a loop history (Loop history mode), All port LED lamps can be turned OFF (ECO mode). The mode at the start is called "Base mode". There are two types of Base modes: Status mode (factory default setting) and ECO mode. You can change the Base mode by holding down the LED display change button (for at least 3 sec). When the Base mode is changed normally, all STATUS/ECO, GIGA, 100M, and FULL LED lamps light up at the same time. When you release the button, the Base mode is changed to the selected mode. If the mode is changed to the GIGA mode, Speed mode, DUPLEX mode, or Loop History mode and the LED display switch button is not used for one minute o longer, the mode automatically returns to a Base mode (Status mode or ECO mode The Base mode is maintained even after the power is turned OFF.			
Panasonic SCOMOCE SWITCH MISS POWER STATUS CO SCOMOCE SWITCH MISS POWER STATUS C	5—4. LED display	(1) POWER (Power) LED Green Light: Power is ON Off: Power is OFF (2) ANY COL. (Collision) LED Orange Light: During half-coccurring in (3) STATUS/ECO (Status/ECO material Green Light: Operating in Green Blink: Operating in Green Blink: Malfunction Off: Power is OFF (4) GIGA (GIGA mode) LED Green Light: Operating in (5) 100M (Speed mode) LED Green Light: Operating in (6) FULL (DUPLEX mode) LED Green Light: Operating in (7) LOOP HISTORY (Loop History in Green Light: Operating in Green Blink: Loop is occurred to the 1000 Mbps transmission rate (GI transmission rate (Speed mode), Display for the connection with a conthe 1000 Mbps transmission rate (GI transmission system (DUPLEX mode history mode), All port LED lamps of the mode at the start is called "Bas There are two types of Base modes: ECO mode. You can change the Bas button (for at least 3 sec). When the Base mode is changed nor FULL LED lamps light up at the sam mode is changed to the selected mode of the mode is changed to the GIGA Loop History mode and the LED dis longer, the mode automatically return the Base mode is maintained even a	Stop bit 1 bit diuplex operation, packet collision is either port. dide) LED a status mode. ECO mode. Os (left) are turned off. (Contact the seller) Os (left) Os (left) or is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Status mode Head of No.4. Display of each por is refer to table 1 of No.4. Display of each por is refer to table 1 of No.4. Os (No.4.) Display of each por is refer to table 1 of No.4. Os (No.4.) Display of each por is refer to table 1 of No.4. Os (No.4.) Display of each por is refer to table 1 of No.4. Os (No.4.) Display of each por is refer to table 1 of No.4.

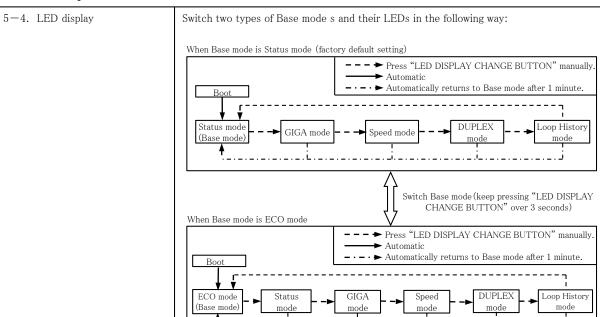
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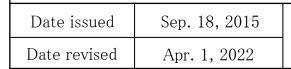
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5. Hardware Specifications



LED lamps for each mode and LED lamps for ports 1 to 9 correspond as the following. (Table 1) ${\it Table} \ \ 1$

Port LED	Display mode	Behavior	Description	
	STATUS/ECO	Green Light Green Blink Off	Link is established Transmitting and receiving data. No device connected.	
	GIGA	Green Light Off	Link is established at 1000Mbps. Link is established at 100Mbps or 10Mbps, or no device is connected.	
Left	100M	Green Light Off	Link is established at 100Mbps. Link is established at 1000Mbps or 10Mbps, or no device is connected.	
	Full	Green Light Off	Link is established at full-duplex. Link is established at half-duplex or or no device is connected.	
	LOOP HISTORY	Green Light Off	Loop has been detected within the last 3 days. No loop detection history.	
Right	_	Orange Light Off	Shutting down by loop detection. Not shutting down by loop detection.	
	Port LED (Left)			



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Port LED (Right)

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6. Software Specifications

6-1. Configuration	Control parameters can be set by the following procedures: (1) Configuration from an asynchronous terminal connected to the console port. (2) Configuration from a remote terminal connected via TELNET and SSH	
6-2. Ethernet Switch Control	Ethernet Switch can be controlled by the following procedures: (1) Control from an asynchronous terminal connected to the console port. (2) Control from a remote terminal using SSH/TELNET and TCP/IP network connection (3) Control using SNMP Manager The Ethernet Switch operation status can be checked using the following functions. (1) Function to display the CPU usage and memory usage (2) SFP module status checking function (DDM: Digital Diagnostic Monitoring)	
6-3. Rebooting	The system can be reset from the software in the following three modes: (1) Warm start (2) Reset to factory default (3) Reset items other than the IP address to factory default The reboot timer function can also be used in each mode.	
6-4. Supported Agent	Management protocol Data transfer protocol	:SNMP v1/v2c/v3 (RFC1157,RFC1901, RFC1908) TELNET (RFC854) SSH v2 (RFC4251,RFC4252, RFC4253,RFC4254) SNTP v3 (RFC1769) :TFTP (RFC783,RFC1350)
6-5. Supported MIB	RFC1213-MIB (MIB II) BRIDGE-MIB SNMPv2-MIB RMON-MIB SNMP-FRAMEWORK-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMP-USER-BASED-SM-MIB SNMP-USER-BASED-ACM-MIB SNMP-COMMUNITY-MIB IP-MIB IF-MIB IEEE8021-PAE-MIB *1 Excluding following item At, ipRouteTable, icmp, egp *2 Excluding following item dot1dStp, dot1dSr, dot1dStatic *3 Excluding following item ipDefaultRouterTable, ipv6RouterTable, ipv6Route	
6-6. System log	Maximum number to be kept: 256 System log transfer (IPv4/IPv6)	

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6. Software Specifications

6-7. Loop detection	Turns on the port LED with a orange light when a loop occurs in the corresponding port. At this time, the relevant port automatically shuts down to prevent loop from occurring. SNMP trap can be sent to notify the incident to the administrator. During loop is occurring, or if loop has occurred within the latest 3 days, LOOP HISTORY LED blinks to notify this.	
	 Loop detection setting Enabled (factory default setting) Enabled/disabled can be switched by configuring a setting using the console, or by pressing "LED DISPLAY CHANGE BUTTON" for 10 seconds or more. The setting is kept even when the power is turned OFF. Loop detection port Enabled: Ports 1 to 7 (factory default setting) Disabled: Ports 8 and 9 (factory default setting) Loop shutoff time 60 to 86400 sec. (Factory default setting: 60 sec.) The set time Port LED lights up orange and the port shuts off. Loop history retention time 3 days The LOOP HISTORY LED lamp flashes for three days. The Port LED lamp also remains lit for three days after the loop is eliminated. 	
6-8. Others	ZEQUO assist Plus Syslog Client (Transfers system logs to the Syslog server.) TFTP Client (Upgrades the software and saves/loads configuration information.) Login RADIUS (login authentication function by the RADIUS server)	

7. Layer 2 Switching Functions

7-1. Port grouping	Members of the port group can communicate only among member ports in the same group. (Number of group registrations: 256)	
7-2. VLAN	IEEE802.1Q Tag VLAN Protocol Port Base VLAN Number of VLAN registrations: 256 (including default) Internet Mansion function	
7-3. Trunking	IEEE802.ad Link Aggregation function (STATIC) Up to 4 groups can be created (up to 8 ports per group).	
7-4. Port Monitoring	Traffic of the target port can be copied to the specified port and transmitted. (Two or more target ports can be specified.) IEEE802.1p 4 levels of Priority Queue supported (Strict priority queuing)	
7-5. QoS		
7-6. Authentication Function	IEEE802.1X Port-based authentication (EAP-MD5/TLS/PEAP Authentication method)	
7—7. Access control	Access control can be controlled by the following parameters: (1) IP address (Source or Destination) (2) IPv6 address (Source or Destination) (3) MAC address (Source or Destination) (4) TCP/UDP port number (Source or Destination) (5) VLAN ID (6) IEEE 802.1p Priority (7) DSCP (8) Protocol (9) ICMP type (10) TCP SYN Flag	
7-8. Time configuration	SNTP-based time synchronization function Manual mode setting	

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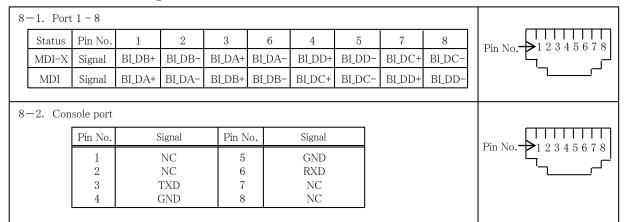
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8. Connector Pin Arrangement



9. Installation Procedures and Accessories

9-1. Installation Procedures	Mounting to rack	
9-2. Accessories	 Installation Guide Rubber foot Mounting bracket (for 19-inch rack) Connecting bracket Screw(for 19-inch rack) Screw (for fixing the main unit and the 19 inch rack mount bracket) Screw (for Connecting bracket) Power cord (BS1363)(*2) The attached power cord is dedicated for AC 100 - 240 V use. 	:1 :4 :2 :2 :4 :8 :8

10. Optional Accessories

10-1. 1000BASE-SX	Fiber optic port connector type :LC connector (Duplex)	
SFP Module	Standards	:IEEE802.3z 1000BASE-SX
(Model No.:PN54021K-MY)	Transmission speed	:1000Mbps, full duplex
	Compatible cable	:Fiber cable
		$50/125\mu$ m Multi Mode Fiber
		$62.5/125\mu$ m Multi Mode Fiber
	Maximum transmission distance	:550 m at 50/125 μ m
		220 m at 62.5/125 μ m
10-2. 1000BASE-LX	Fiber optic port connector type: LC connector (Duplex)	
SFP Module	Standards	:IEEE802.3z 1000BASE-LX
(Model No.:PN54023K-MY)	Transmission speed	:1000Mbps, full duplex
	Compatible cable	:Fiber cable
		$10/125\mu$ m Single Mode Fiber
		$50/125\mu$ m Multi Mode Fiber
		$62.5/125\mu$ m Multi Mode Fiber
	Maximum transmission distance	:10 km when Single Mode Fiber is used
		550 m when Multi Mode Fiber is used

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11. Prohibitions when Using the Product to Guarantee Safety

The manufacturer assumes no responsibility for any problems occurring when the following conditions are not satisfied. Observe the following items when using the product.

- Do not use power supply other than AC 100 240 V.
 Deviation could lead to fire, electric shock, and/or equipment failure.
- (2) Do not disassemble and/or modify this Ethernet Switch. Deviation could lead to fire, electric shock, and/or equipment failure.
- (3) Do not put foreign objects (such as metal and combustible) into the opening (such as twisted pair port, console port), and/or do not drop them into the inside of the Ethernet Switch.
 Deviation could lead to fire, electric shock, and/or equipment failure.
- (4) Do not connect equipments other than 10BASE-T/100BASE-TX/1000BASE-T to twisted pair port. Deviation could lead to fire, electric shock, and/or equipment failure.
- (5) Do not place this Ethernet Switch in harsh environment (such as near water, high humid, and/or high dust). Deviation could lead to fire, electric shock, and/or equipment failure.
- (6) Do not place this Ethernet Switch under direct sunlight and/or high temperature. Deviation could lead to high internal temperature and fire.
- (7) Do not handle the power cord with wet hand. Deviation could lead to electric shock, and/or equipment failure.
- (8) Do not handle this Ethernet Switch and connection cables during a thunderstorm. Deviation could lead to electric shock.
- (9) Do not damage the power cord. Do not bend too tightly, stretch, twist, bundle with other cord, pinch, put under a heavy object and/or heat it. Damaged power cord could lead to fire, short, and/or electric shock.
- (10) Do not install this Ethernet Switch at the location with continuous vibration or strong shock, or at the unstable location.

 Deviation could lead to injury and/or equipment failure.
- (11) Do not insert any modules other than the optional SFP modules (PN54021K-MY/PN54023K-MY) into the SFP extension slot. Deviation could lead to fire, electric shock, and/or equipment failure. For the latest information about compatible SFP extension modules, check our website.
- (12) Do not put this Ethernet Switch into fire.

 Deviation could lead to explosion and/or fire.
- (13) Do not use the supplied power cord for anything other than this product. Deviation could lead to fire, electric shock, and/or equipment failure.
- (14) Unplug the power cord in case of equipment failure.Deviation, such as keeping connected for a long time, could lead to fire.
- (15) Connect this Ethernet Switch to ground.

 Deviation could lead to electric shock, malfunction, and/or equipment failure.
- (16) Connect the power cord firmly to the power port. Deviation could lead to electric fire, shock, and/or malfunction.
- (17) Unplug the power cord if the STATUS/ECO LED (Status/ECO mode) blinks in orange (system fault). Deviation, such as keeping connected for a long time, could lead to fire.

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11. Prohibitions when Using the Product to Guarantee Safety

(18) Handle the Ethernet Switch carefully so that fingers or hands may not be damaged by twisted pair port, console port, or power cord hook block.

12. Basic Instructions for the Use of This Product

- (1) For inspection and/or diagnosis, consult the retailer.
- (2) Use commercial power supply from a wall socket, which is close and easily accessible to this Ethernet Switch.
- (3) Unplug the power cord when installing or moving this Ethernet Switch.
- (4) Unplug the power cord when cleaning this Ethernet Switch.
- (5) Use this Ethernet Switch within the specifications. Deviation could lead to malfunction.
- (6) Do not touch the metal terminal of the RJ45 connector, the modular plug of connected twisted pair cable.

 Do not place charged objects in the proximity of them. Static electricity could lead to equipment failure.
- (7) Do not put the modular plug of the connected twisted pair cable on objects that can carry static charge, such as carpet. Do not place it in the proximity. Static electricity could lead to equipment failure.
- (8) Do not put a strong shock, including dropping, to this Ethernet Switch. Deviation could lead to equipment failure.
- (9) Before connecting a console cable to the console port, discharge static electricity, for example by touching metal appliance (do not discharge by touching this Ethernet Switch).
- (10) Do not store and/or use this Ethernet Switch in the environment with the characteristics listed below.
 - (Store and/or use this Ethernet Switch in the environment in accordance with the specification.)
 - High humidity. Possible spilled liquid (water).
 - Dusty. Possible static charge (such as carpet).
 - Under direct sunlight.
 - Possible condensation. High/low temperature exceeding the specifications environment.
 - Strong vibration and/or strong shock.
- (11) Please use this Ethernet Switch in place where ambient temperature is from 0 to 50°C. Failure to satisfy the conditions above may result in a fire, electric shock, equipment failure, and/or malfunction. Such events are not covered by the warranty. Do not block the ventilator of the Ethernet Switch. Blocked ventilator induces the heat accumulation inside, causing equipment failure and/or malfunction.
- (12) When using two Ethernet Switches, do not stack them. When you place them side by side, allow for a space of 20 mm or more between them. This space is not necessary if you use supplied connection brackets.
- (13) Operation is not guaranteed if a module other than the optional SFP extension modules (PN54021K-MY/PN54023K-MY) is inserted into the SFP extension slot.
 - For the latest information about compatible SFP extension modules, check our website.

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