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1. Summary

The ZEQUO 2310 is a Layer 2 all giga Ethernet Switch equipped with management functions that has $20\ 10/100/1000 BASE-T$ ports and $4\ SFP$ expansion slots.

2. Feature

- (1) Ports 1 to 20 are 10BASE-T/100BASE-TX/1000BASE-T ports corresponding to auto negotiation. Also their speed and communication mode can be switched by configuration. However, ports 17 to 20 do not support half-duplex mode.
- (2) Ports 17 to 20 are SFP extension slots. These ports and the 1000BASE-T twisted pair cable ports cannot be used simultaneously.
- (3) Settings and firmware can be changed and saved by using an SD card.
- (4) 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. (To prevent loop failures, port 1 to 16 are fixed to MDI-X at factory default settings.)
- (5) The connection status for each port is detected by the power saving mode, and it can reduce the power consumption to required levels when not linked up. (Factory default: deactivated)
- (6) Due to the loop detection/shutoff function, a port where loop has occurred can be automatically shut off to prevent loop failures. When a port is shut off and recovered automatically, SNMP trap can be sent to notify the incident to the administrator. Moreover, the port with a loop can be identified by loop notification on the LEDs on the main unit and referring the history of loop on the setting screen.
- (7) The IEEE802.1p compatible QoS function is supported.
- (8) 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.
- (9) Supports triple authentication that can simultaneously wait on IEEE802.1X authentication, MAC authentication, and WEB authentication via one port, and an authentication network which is matched to the kinds of connection terminals can be constructed.
- (10) Equipped with step authentication functions, and can prevent illegal access of the terminals.
- (11) The Ring Redundant Protocol (RRP) is supported, allowing to make a redundant net-work via ring topology.

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3. Rated/Environmental Conditions

3−1. Power supply	AC100-240V, 50/60Hz, 0.6A (with a built-in power supply)	
3-2. Power consumption	Normally, Max.18.1W, Min.10.4W	
3-3. Operating environment	Temperature: $0-50^{\circ}$ C Humidity: $20-80\%$ RH (no condensation)	
3-4. Storage environment	Temperature: -20 - 70°C Humidity: 10 - 90%RH (no condensation)	
3-5. EMC compliance	Humidity: 10 - 90%RH (no condensation) CISPR 32 Class A EN 55032 Class A AS/NZS CISPR32 Class A VCCI Class A EN 61000-3-2, EN 61000-3-3 CISPR24 EN 55024 IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	
3-6. Safety compliance	IEC 62368-1 EN 62368-1	
3-7. Environment compliance RoHS compliant		

4. Form

4-1. Form and materials/colors	Dimensions Case material Color	: 44mm(Height) × 440mm(Width) × 312mm(Depth) (Excluding protruding sections) : Main unit: SECC, Front face: PC/ABS, Face plate: PC : Main unit: Green 03, Front face: Black 02, Face plate label: Black 01
4-2. Mass (Weight)	3,800 g	

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5. Hardware Specifications

5-1. Interface	Twisted pair port 1-16	: RJ45 connector (*1)		
	Transmitting and receiving ne			
		IEEE802.3 10BASE-T		
		IEEE802.3u 100BASE-TX		
		IEEE 802.3ab 1000BASE-T		
	Energy Efficient Ethernet (*2			
	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 distan			
	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.		
	Twisted pair port 17-20	: RJ45 connector		
	Transmitting and receiving ne			
		IEEE802.3 10BASE-T		
		IEEE802.3u 100BASE-TX		
		IEEE802.3ab 1000BASE-T		
	Transmission speed	: 10/100/1000Mbps full duplex.		
	Compatible cable	: Twisted pair cable		
	c simpations causes	(At least equivalent to EIA/TIA568		
		category 5e)		
	Maximum transmission distan			
	Auto-Negotiation	: Communication speed and full/half duplex are		
	Tideo Tregoriation	automatically recognized.		
		The setting can be fixed to 10Mbps, 100Mbps		
		and full duplex.		
	*1 Embedded power saving	mode detects the connection status automatically		
	and saves power consum	aption to minimum.		
	*2 Energy Efficient Etherne	*2 Energy Efficient Ethernet (EEE) conforming to IEEE802.3az (LPI). When there is no data transmission at link up, the energy-saving state		
	When there is no data to			
	automatically starts so t	hat power consumption can be reduced on each port.		
	SFP extension slot 17-20			
	l l	etwork system: IEEE802.3z 1000BASE-X		
	* Select either of RJ45 or			
	SFF-8472 (DMI: Diagnostic N			
		: 1000BASE-SX SFP Module(i) (PN54022-NZ)		
		1000BASE-LX SFP Module(i) (PN54024-NZ)		
5-2. Switching mode	Switching method	: Store and Forward		
	Switching capacity	: 40.0Gbps		
l	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. 16K entry/unit		
	Buffer memory	: 2.0M Bytes/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		
	James name supported			
	Transmittable frames	: EAP,BPDU,LACP		

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5. Hardware Specifications

5-3. Terminal emulator connection	Console port : RJ45 connector 1 port Transmission mode : RS-232C (ITU-TS V.24) Emulation mode : VT100 Communication configuration : 9,600bps, 8bit, None Parity control, Stop bit 1 bit	
5-4. SD card slot	SD card slot : 1 Standard : SD/SDHC Class : 2/4/6/10 Size : 128MBytes to 32GBytes	
5-5. LED display	(1) POWER LED Green Light : Power is ON Off : Power is OFF. Or, an internal power fault.	
	(2) STATUS LED Green Light : The system is normally operating. Green Blink : Port is available within 3 days after a loop resolution. Orange Light : Starting. Orange Blink : Malfunction (Contact the seller).	
	(3) SD CARD LED Green Light : SD card inserted Green Blink : Reading / writing data Orange Light : SD card error Off : No SD card	
	(4) Port LED (Port 1-20) Green Light : Link is established at 10/100/1000 Mbps. Green Blink : Transmitting and receiving data at 10/100/1000 Mbps. Orange Light : Shuts off due to loop detection and shutoff functions/storm controls/BPDU guard Orange Blink : Transmitting and receiving just the administration packets Off : No devices is connected.	
	(5) Port LED (SFP port 17-20) Green Light : Link is established at 1000 Mbps full duplex. Green Blink : Transmitting and receiving data at 1000 Mbps full duplex. Orange Light : Shuts off due to loop detection and shutoff functions/ storm controls/BPDU guard Orange Blink : Transmitting and receiving just the administration packets Off : No devices is connected.	
5-6. Cascade connections	Port 1-20 corresponding to the Auto MDI / MDI-X (Allowed change by the setting for the application) The factory default is for ports 1 to 16 are fixed to be MDI-X.	
5-7. FAN	No installed	

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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. (3) Configuration from a remote terminal via Web screen.		
6-2. Ethernet Switch Control	ZEQUO assist Plus can confirm the management/operation status of Switching Hub. 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) Internal temperature sensor function (2) Function to display the CPU usage and memory usage (3) SFP module status checking function (DDM: Digital Diagnostic Monitoring) (4) Twisted pair cable diagnostic function		
6-3. System reboot	The system can be reset from the software in the following two modes: (1) Warm start. (2) Reset back to the factory default settings.		
6-4. Agent	Management protocol : SNMP v1/v2c/v. TELNET SSH v2 SNTPv3 Data transfer protocol : TFTP	3 (RFC 1157, RFC 1901, RFC 1908, RFC 3411, RFC 3414) (RFC 854) (RFC 4251, RFC 4252, RFC4253, RFC 4254) (RFC 1769) (RFC 783, RFC 1350)	
6-5. Support 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	(RFC 1213) (%1) (RFC 4188) (%2) (RFC 1907) (RFC 2819) only etherStatsTable (RFC 2571) (RFC 2572) (RFC 2573N) (RFC 2573T) (RFC 2574) (RFC 2575) (RFC 2576) (RFC 2576) (RFC 24293) (%3) (RFC 2863) excluding IfMIB excluding dot1xPaeSupplicant	
6-6. Log	*3 Excluding following item ipDefaultRouterTable, ipv6RouterAdvertTable Maximum number to be kept: 10,000 Transfers system logs to the Syslog server (IPv4 / v6)		

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6. Software Specifications

6—7. Loop Detection	Will be notified of the ports which generated the loops via LEDs, those ports will be automatically blocked off. (When blocked off, the port LEDs light up orange.) In addition, when ports are blocked off and automatically restored, the administrator can be notified via an SNMP trap. After loop cancellations, for the ports that are within three days, the STATUS LEDs will flash green, and notifications will be given. Loop detection port Enabled: Ports 1 to 16 Disabled: Ports 17 to 20 (factory default) Enabled (factory default) Enabled/disabled can be switched by configuring a setting using the console. Loop shutoff time 60 to 86,400 sec. (factory default: 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 blink for three days. The Port LED also remains lit for three days after the loop is eliminated. The Loop shutoff mode has the following 2 types of modes. Blocking mode (factory default) When loops are detected, the ports are blocked, and just the loop detection packets will be transmitted and received. Shutdown mode When loops are detected, the ports are shut down, and none of the packets including the loop detection packets will be transmitted nor received. (*) *Just the loop detection packets from 30 seconds before the set received in times will automatically he transmitted and received.	
	*Just the loop detection packets from 30 seconds before the set restoration times will automatically be transmitted and received.	
6-8. Others	Syslog Client (system log sent to a Syslog server) TFTP Client (Firmware upgrade, save and read of configuration information) TELNET Client DHCP Client SNTP LLDP LLDP LLDP-MED DNS Resolver DHCP Snooping UDLD DDM Statistics Watch Dog Timer	

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7. Layer 2 Switching Functions

Layer 2 Switching Functions			
7-1. Spanning Tree	IEEE 802.1D Spanning Tree Protocol, Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol BPDU guard		
7-2. VLAN	IEEE802.1Q Private VLAN MAC-based VLAN Subnet based VLAN Protocol-based VLAN Asymmetric VLAN Voice VLAN (LLDP-MED) Dynamic VLAN Guest VLAN Number of VLAN registrations: 4,094 (including default)		
7-3. Link aggregation	IEEE802.3ad link aggregation function (LACP/STATIC) Up to 10 groups can be created (up to 8 ports per group).		
7—4. SPAN, RSPAN	Subject port traffic can be copied and transmitted to designated ports (multiple subject ports can be designated) Remote switching packets can be monitored via RSPAN		
7-5. Multicast	IGMP snooping (IGMPv1/v2/v3) function. (can be up to 1,024 groups of registration) IGMP Querier function MLD snooping (MLDv1/v2) function. (can be up to 1,024 groups of registration,) Multicast filtering function		
7-6. QoS	IEEE802.1p 8 levels of Priority Queue supported Scheduling Method: Strict Priority Queuing (SPQ:Strict priority queuing) Weighted Round Robin (WRR:Weighted round robin scheduling) Weighted Deficit Round Robin (WDRR: Weighted Deficit Round Robin scheduling)		
7-7. Authentication Function	IEEE802.1X Port-based authentication Mac-based authentication using IEEE 802.1X Dynamic VLAN function using IEEE 802.1X Guest VLAN using IEEE 802.1X (EAP-MD5/TLS/PEAP Authentication method) Force Authorized MAC Address Configuration EAP Packet Forwarding function (Enable/disable EAP transmission can be specified for each port.) MAC authentication WEB authentication Triple authentication (*1) Step authentication (*2) *1 IEEE802.1X MAC-based/MAC/WEB authentication can be simultaneously put into standby via 1 port *2 2 authentications can be combined in phases MAC-WEB authentication MAC-802.1X authentication 802.1X-WEB authentication		
7—8. 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		

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7. Layer 2 Switching Functions

7-9. Ring protocol	Redundancy is enabled by ring topology. (Up to 8 group can be registered.)
7-10. Time setting	SNTP settings, time manual setting
7-11. Storm control function	Unknown unicast, Broadcast, Multicast of possible control the storm

8. Web management function

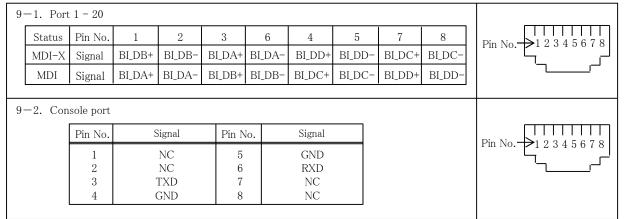
8-1. Software specification					
8-1-1. Enabled browser	Microsoft Internet Explorer 11				
8-2. Setting function	8-2. Setting function				
8-2-1. Switching configuration	Administration IP Address SNMP SNTP Port System Security ID/Password Change Forwarding Database(FDB) Time(SNTP) LLDP VLAN Link Aggregation Port monitoring MSTP (Multiple Spanning Tree) Access control QoS Storm Control	Authentication IGMP Snooping IGMP Querier Loop Detection Ring protocol DDM Port counter File Transfer Reboot Syslog Transmission Save Settings			
8—3. Monitoring function					
8-3-2. Learning and recording information FDB table, ARP table, Statistics, System log					
8-4. System management tools Software upgrade, Reboot, Save current config, file transfer, Ping execution					

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9. Connector Pin Arrangement



10. Installation Procedures and Accessories

10-1. Installation Procedures	Mounting to rack	
10-2. Accessories	 Installation Guide Rubber foot Mounting bracket (for 19-inch rack) Screw (for 19-inch rack) Screw (for fixing the main unit and the mounting bracket) Dummy SD card Power cord (AS/NZS3112) (*) * The attached power cord is dedicated for AC 100 - 240 V use. 	: 1 : 4 : 2 : 4 : 8 : 1 : 1

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11. Optional accessories

11-1. 1000BASE-SX SFP Module (i) (Model No. :PN54022-NZ)	Fiber optic port connector type Standards Transmission speed Compatible cable Maximum transmission distance Operating Temperature	: LC connector (Duplex) : IEEE802.3z 1000BASE-SX : 1000Mbps, full duplex : Fiber cable
11-2. 1000BASE-LX SFP Module (i) (Model No.:PN54024-NZ)	Fiber optic port connector type Standards Transmission speed Compatible cable Maximum transmission distance Operating Temperature	: LC connector (Duplex) : IEEE802.3z 1000BASE-LX : 1000Mbps, full duplex : Fiber cable 10/125 μ m Single Mode Fiber 50/125 μ m Multi Mode Fiber 62.5/125 μ m Multi Mode Fiber : 10 km when Single Mode Fiber is used 550 m when Multi Mode Fiber is used : 0 - 60°C

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12. Prohibitions when Using the Product to Guarantee Safety

Denotes that "Death or serious injuries might be sustained".

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 handle this Ethernet Switch and connection cables during a thunderstorm. Deviation could lead to electric shock.
- (3) Do not disassemble and/or modify this Switching Hub. Deviation could lead to fire, electric shock, and/or equipment failure.
- (4) 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.
- (5) Do not unplug nor plug in the power plug with wet hands.

 Deviation could lead to electrical shock, and/or equipment failure.
- (6) Do not insert, nor drop foreign objects such as metal or readily combustible things into the inside through the openings. Deviation could lead to fire, electric shock, and/or equipment failure.
- (7) Do not store or use the Ethernet Switch in places where it might get splashed with liquids such as water, in places with high humidity, with conductive dust, or in places where there are corrosive and combustible gases.
 Deviation could lead to fire, electrical shock, and/or equipment failure.
- (8) Do not use the Ethernet Switch in very dusty areas such as on floors, underneath floors, the backside of ceilings, or boards. Deviation could lead to fire, electrical shock, and/or equipment failure. It is recommended that the Ethernet Switch be operated in environments such as the inside of racks where it is difficult for dust to be generated.
- (9) Do not store or use the Ethernet Switch in places where it will be exposed to direct sunlight or high temperatures. The temperature inside will rise, which may cause fire.
- (10) Do not store or use the Ethernet Switch in places where there are lots of vibrations and impacts, or in unstable areas. It might fall, which may cause injuries and/or equipment failure.
- (11) Do not put this Ethernet Switch into fire.
 Deviation could lead to explosion and/or fire.
- (12) Do not connect any other devices except for 10BASE-T/100BASE-TX/1000BASE-T devices to the twisted pair ports. Deviation could lead to equipment failure.
- (13) Do not insert any other modules except for our optional SFP module (PN54022-NZ/PN54024-NZ) to the SFP extension slots. Check out our website for the latest information on supported SFP modules.

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13. Cautions when Using the Product to Guarantee Safety

Denotes that "Minor injuries might be sustained, or property damage might occur".

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

- Be sure to check the precautions which are printed on the product labels before using.
 Deviation could lead to electric shock.
- (2) Use the bundled power cord (AC 100 240 V specifications). Deviation could lead to electric shock, malfunction, and/or equipment failure.
- (3) Unplug the power cord in case of equipment failure. Deviation, such as keeping connected for a long time, could lead to fire.
- (4) Be sure to connect the ground cable. Otherwise this might cause electrical shocks, misoperations and malfunctions. Connect the Ethernet Switch via the supplied power cord to the outlet which is connected to the ground.

If the outlet is not connected to a ground, connect the ground cable to the ground terminal screw.

- (5) Connect the power cord firmly to the power port.

 Deviation could lead to electric fire, shock, and/or malfunction.
- (6) If the STATUS LED is blinking orange, check for the cause via the system log, since it might be a malfunction if it is not the temperature, loop detection and shutoff, unplug the power plug.
 Deviation, such as keeping connected for a long time, could lead to fire.
- (7) Handle the Ethernet Switch carefully so that fingers or hands may not be damaged by twisted pair port, SFP extension slot, console port, SD card slot, or power cord hook block.
- (8) Check whether the optical fiber cable connectors are contaminated with dust, etc.

 This might cause the optical signal to not be transmitted normally, and cause misoperations and malfunctions. If they are contaminated, make sure to clean them off, then connect them to the optical fiber ports.
- (9) This Ethernet Switch is to be periodically serviced in order to maintain its performance.

 Please choose a product administrator, and have them be sure to implement periodic maintenance. When doing maintenance, check the inspection chart that is posted on our website which has the requisite items listed on it.
- (10) When using this Ethernet Switch to design systems, use it after applying appropriate measures such as setting up redundant configurations.

Communications failures might be generated due to causes such as malfunctions or misoperations while the Ethernet Switch is being used.

- (11) When using this Ethernet Switch for applications which require extremely high reliability, be careful to expend all possible means to ensure safety and reliability.
 - This Ethernet Switch was not designed nor manufactured with the intention that it be used for applications (in use with railways, aviation, and medical care, etc. whereas the influence rate due to communications failures is extremely high in regard to systems that directly affect systems and human lives) which require extremely high reliability.
- (12) It is recommended that this Ethernet Switch be replaced about five years after it has been installed.

 This may vary depending upon conditions such as utilisation rates and usage environments, but performance might decrease due to the age-related degradation, etc. of components.
- (13) Be careful in regards to environmental restrictions whereby the Ethernet Switch can be used.

 Please isolate the business power lines and communications lines. Isolate distribution lines and other distribution lines, and low current power lines, optical fiber cables, metallic water conduits, and gas conduits, etc. Noise may be generated in the communications lines which might cause communications glitches.
- (14) Do not connect the console ports with any other device except for serial communication terminal. Deviation could lead to equipment failure.

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14. Basic Instructions for the Use of This Product

- (1) For inspection and/or diagnosis, consult the shop.
- (2) Use commercial power supply from a wall socket, which is close and easily accessible to this Switching Hub.
- (3) Unplug the power cord when installing or moving this Switching Hub.
- (4) Unplug the power cord when cleaning this Switching Hub.
- (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, or the metal terminal of the SFP extension slot. 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 Switching Hub. 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 Switching Hub).
- (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 $50^{\circ}\,$ C.

Failure to meet the above conditions may result in fire, electric shock, breakdown, and/or malfunction.

Please take notice because such cases are out of guarantee.

Additionally, do not cover the bent hole of this Switching Hub.

Deviation could lead to high internal temperature, 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.
- (13) When mounting Ethernet Switch to rack, leave a minimum of 20 mm space between them.
- (14) Operation is not guaranteed if a module other than the optional SFP extension modules (PN54022-NZ/PN54024-NZ) is inserted into the SFP extension slot.

For the latest information about compatible SFP extension modules, check our website.

(15) Select the appropriate cables and lay them.

Communications might be affected by how the cables are laid, and environmental noise.

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