Model Name	Switc	h-S24GPWR		401-25249-ID-SP03			
Model No.	PN	25249-ID	Product Specification	Page 1 of 10			
1. \$	 Summary Switch-S24GPWR is an Ethernet Switching Hub with management function having 24 ports of 10/100/1000BASE-T. Port 1 to 24 support IEEE802.3af PoE power supply function. 						
2. H	Features .) Has wire-sp	eed Layer 2 switching function.					
(2	(2) Ports 1 to 24 are 10/100/1000BASE-T ports corresponding to auto-negotiation. Also their speed and communication mode can be switched by configuration.						
(3	3) Port 1 to 24 total is possi	can supply power conforming w ble.	ith IEEE802.3af. Supplying power up to 15.4 W per	port, and up to 124W in			
(4	 All twisted p Simply conn (This function Ports 1 to 2 	pair ports support straight/cross lect devices with straight cables on does not work if the port con 2 are set at MDI-X. (default))	s cable auto sensing function. , whether it is a terminal or a network device. munication configuration is set at Fixed or Link Ag	gregation.			
(5	(5) Telnet allows remote configuration changes and verifications of the Switching Hub. Remotely configure the PoE setting for each port (Ports 1 to 24).						
(6	(6) Has the IEEE 802.3az (LPI)-compliant Energy Efficient Ethernet function (hereafter referred to as EEE). This function automatically saves power when there is no data communication in the linkup state, allowing a reduction in the power consumption of each port.						
(7	7) Embedded p	ower saving mode detects the c	onnection status automatically and saves power cor	asumption to minimum.			
3)	3) VLAN funct	ion allows free grouping of up to	256 VLANs.				
(9	9) The IEEE80	2.1p compatible QoS function is	s supported.				
(10) Has a loop and automat	detection function, which notifie tically shuts down the looped po	s when a loop occurs with the corresponding port L rt.	ED			
(11) Has a loop and enables	detection history function, which a network administrator to iden	n notifies when a loop occurs with the corresponding tify the looped port after the loop is removed.	g LED			
(12) The PoE sch	neduler function enables schedul	ing of PoE power supply control.				
(13)Supports ZE	QUO assist Plus. Processes from	n introduction to maintenance can be performed ea	sily.			
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Model Name	Switch-S24GPWR PN25249-ID			401-25249-ID-SP03		
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3.	Rated/Environmental Cor	nditions				
	3-1. Power supply	AC100-	240V, 50/60Hz, 2.6A (with a built-in power supply	J)		
	3-2. Power consumption	Normall [If the s Normall [If the s	Normally, Max.162W (24.1W when not supplying power), Min.12.7W [If the sixth number from the left of the serial number is 2.] Normally, Max.172W (34.4W when not supplying power), Min.23.2W [If the sixth number from the left of the serial number is 1.]			
	3-3. Operating environment	ing environment Temperature: 0 - 45°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	CISPR 2 EN 5502 EN 5503 AS/NZS VCCI C EN 6100 CISPR 2 EN 5502 IEC 6100 IEC 610	22 Class A 22 Class A 32 Class A 5 CISPR22 Class A lass A 00-3-2, EN 61000-3-3 24 24 000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 6100 000-4-6, IEC 61000-4-8, IEC 61000-4-11	00-4-5,		
	3-6. Safety compliance	IEC 60950-1 EN 60950-1				
	3-7. Environment compliance	RoHS co	ompliant			

4. Form

4-1. Form and materials/colors	Dimensions Case material Color	:44mm(Height) ×440mm(Width) ×256mm(Depth) (Excluding protruding sections) :SECC : Main unit: Green 03, Front face: Black 03, Face plate label: Black 04
4-2. Mass(Weight)	3,600g	±

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Model No. PN252249-ID Product Specification Page 3 of 10 5. Hardware Specifications :R45 connector (41) Instanting and section network system: Instanting and section network system: Instanting and section network system: Instantiation of the system instantiation instantiation instantiation instantiation instantiation instantiation of the system instantiation instantiatinstantinstantiation instantinstantiation instantiation in	Model Name	Swite	h-S24GPW	R		• 0• . •	401-25249-ID-SP03
5. Hardware Specifications IR48 connects (41) Trainaulting and receiving network system: IEEE802.3. 100ASE-T HEE802.3. 100ASE-T HE802.3. 100ASE-T HE802.3	Model No.	PN	PN25249-ID		Product Specification		Page 3 of 10
5-1. Interface Twisted pair pert 1-24 :R445 connector (*1) Transmitting and receiving network system: IEEEB02.3 100ASE-T IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEEB02.3 100BASE-TX IEEB02.3 100BASE-TX IEEB02.3 100BASE-TX IEEB02.3 100BASE-TX IEEB02.3 100BASE-TX IEEB02.3 100BASE-TX IEED02.3 100BASE-TX IEEB02.3 100BASE-TX IEED02.3 100BASE-TX IEEB02.3 100BASE-TX IEED02.3 100IASE-TX IEEB02.3 100BASE-TX IEED02.3 100BASE-TX IEEB02.3 IEEB02.3 100BASE-TX IEED02.1 IEEB02.2 100BASE-TX IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.2 IEEB02.	5.	Hardware S	Specifications				
5-2. Switching mode Switching unethod Store and Forward 5-2. Switching mode Switching capacity : 48Cbps Switching capacity : 180m-blocking Max 148,800ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 14,800ps/sport (1000Mbps) Max 148,800ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 14,800ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 14,880ps/sport (1000Mbps) Max 14,880ps/sport (1000mbp) Store and Forward Sign timeout : 10 to 1,000,000 sc. (Default: 300 scc.) Jumb frame supported : 9KB Transmitsion mode : RI45 connector 1 port Transmitsion mode : Store bit 1 bit Stop bit 1 bit Stop bit 1 bit		5-1. Interface		Twisted Tran Ener Tran Com Maxi Auto Up ta *1 *2	 isted pair port 1–24 :RJ45 connector (*1) Transmitting and receiving network system: IEEE802.3 I0BASE-T IEEE802.3u I00BASE-TX IEEE802.3ab I000BASE-T Energy Efficient Ethernet (*2) :IEEE802.3az(LPI) Transmission speed :10/100/1000Mbps, full/half duplex Compatible cable :Twisted pair cable (At least equivalent to EIA/TIA568 category 5 Maximum transmission distance Auto-Negotiation :Communication speed and full/half duplex a automatically recognized. The setting can be fixed to 10Mbps, 100Mt or 1000Mbps and full duplex or half duplex. Up to 15.4 W of power can be supplied to ports 1 to 24. *1 Embedded power saving mode detects the connection status automatically and saves power consumption to minimum. *2 Equipped with energy efficient Ethernet (EEE) conforming to IEEE802.3az (LI 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 		(*1) 10BASE-T 100BASE-TX 1000BASE-TX 1000BASE-T) ps, full/half duplex le to EIA/TIA568 category 5e) speed and full/half duplex are cognized. be fixed to 10Mbps, 100Mbps, d full duplex or half duplex. on status automatically forming to IEEE802.3az (LPI). energy-saving state
5-3. Terminal emulator connection Console port Transmission mode Emulation mode Communication configuration :RJ45 connector 1 port :RS-232C (ITU-TS V.24) Emulation mode Communication configuration :9,600bps, 8bit, None Parity control, Stop bit 1 bit Date issued June 1, 2015	5-2. Switching mo		g mode	automatically starts so that power consumption can be reduced of Switching method :Store and Forward Switching capacity :48Gbps Packet transfer capability :Non-blocking Max 1,488,000pps/port (1000M Max 148,800pps/port (100Mbp) MAC Address table :Max 8K entry/unit Automatic learning can be enal for each port. Fixed registratio Buffer memory :512K Byte/unit Flow control :half-duplex Back pressure Aging timeout :10 to 1,000,000 sec. (Default: Jumbo frame supported :9KB Tremeristickle formure :FAD BDDM		n be reduced on each port. rd s/port (1000Mbps) /port (100Mbps) port (10Mbps) nit ag can be enabled/disabled ted registration is enabled. k pressure E802.3x sec. (Default: 300 sec.)	
Date issued June 1, 2015		5-3. Terminal connecti	emulator ion	Console Tran Emul Com	port smission mode lation mode munication configuration	:RJ45 connector 1 :RS-232C (ITU-T :VT100 :9,600bps, 8bit, N Stop bit 1 bit	l port 'S V.24) None Parity control,
Date issued June 1, 2015							
Panasonic Eco Solutions Networks Co., Ltd.	Dat	te issued	June 1, 20	15	Panasonic Ec	co Solutions N	Networks Co., Ltd.

Model Name	Switc	ch-S24GPWR		Dreduct Creation	401-25249-ID-	-SP03
Model No.	PN	25249-ID		Product Specification	Page 4 of	10
5.	Hardware S	Specifications				
	5-4. LED disp	lay	 (1) POV (2) ANY (2) ANY (3) PoE (3) PoE (4) STA (5) PoE (6) GIG. (7) 100N (8) FUL (9) LOC Using "I following (Status 1) (St	VER (Power) LED Green Light : Power is OFF 'COL. (Colision) LED Orange Light : During half-duplex operation, packe either port. LIM. (PoE limit) LED Off Supplying power in the range from 0 to 117 W Green Light : Supplying power in the range from 11 Orange Blink : A single port's power supply of the Swi 124 W. TUS/ECO (Status/ECO mode) 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) (Power supply mode) LED Green Light : Operating in power supply mode. A (GIGA mode) LED Green Light : Operating in Speed mode. M (Speed mode) LED Green Light : Operating in Speed mode. M (DPLEX mode) LED Green Light : Operating in DUPLEX mode. DP HISTORY (Loop History mode) LED Green Light : Operating in Loop History mode. Green Blink : Loop is occurring , or occurred within the last 3days. LED DISPLAY CHANGE BUTTON" on the front pr g operations: indication of a connection status with mode), indication of PoE power supply (PoE mode), ication speed at 1000 Mbps (GIGA mode), indication of a currence (Loop History mode), or turning off LEDs - te vor half-duplex (DUPLEX mode), indication of a currence (Loop History mode), or turning off LEDs - to booting is called as Base mode. There are two typu us mode (default setting at shipment) and ECO mode th the Base mode, keep pressing "LED DISPLAY C or more. witching is done successfully, 5 LEDs of STATUS/E ED,100M LED, and FULL LED are lighted once at med off, and then it enters a Base mode. After switc mode or ECO mode). de is held even if power supply was turned OFF.	et collision is occurring in 7. 7 to 124 W. eding the upper limit, tching Hub is exceeding anel, you can switch the a connected terminal indication of on of communication transmission mode of port having a history of of all ports (ECO mode). es of Base modes, which de. HANGE BUTTON" for 3 ECO LED, PoE LED, the same time, ching to PoE mode, r mode, and "LED DISPL/ ally returns to Base mode	AY
Dat	te issued	June 1,20 Feb 22 20)15)16	Panasonic Eco Solutions N	letworks Co., L	td.

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5.	Hardware S	Specifications		I			
	5-4. LED disp	blay	Switch t	wo types of Base r	nodes and their I	LEDs in the follo	wing way:
			When Ba	ase mode is Status i	node (factory def	ault setting)	
			Boot Status mode (Base mode) PoE mode PoE m			Y CHANGE BUTTON" manually. s to Base mode after 1 minute. DUPLEX mode Loop History mode	
			When Base mode is ECO mode Switch Base mode (keep pressing "LED DISPLAY CHANGE BUTTON" over 3 seconds) When Base mode is ECO mode Press "LED DISPLAY CHANGE BUTTON" manually. Automatic Automatic Sout Automatic				de (keep pressing "LED DISPLAY BUTTON" over 3 seconds) Y CHANGE BUTTON" manually. Is to Base mode after 1 minute.
			ECO mode (Base mode) •• Status mode •• Competition •• Status mode •• Competition •• Speed mode •• DUPLEX mode •• DUPLEX mode •• Duplex mode				DUPLEX mode Loop History mode
			LED lam (Table 1	<pre>hps for each mode }</pre>	and LED lamps f	or ports 1 to 24 able 1	correspond as the following.
			Port LED	Display mode	Behavior	E	Description
				STATUS/ECO	Green Light Green Blink	Link is establish Transmitting and	ed d receiving data.
				PoE	Off Green Light Orange Blink Off	No device control Supplying power Overload caused power supply of only).	er normally (ports 1 to 24 only) I by a single port or the total the Switching Hub (ports 1 to 24 ower or no PoE-powered device
			Left	GIGA	Green Light Off	connected. Link is establish Link is establish 10Mbps , or no	ed at 1000Mbps. ed at 100Mbps or device is connected.
				100M	Green Light Off	Link is establish Link is establish or no device is o	ed at 100Mbps. ed at 1000Mbps or 10Mbps , connected
				FULL	Green Light Off	Link is establish Link is establish or no device is o	ed at full-duplex. ed at half-duplex connected.
				LOOP HISTORY	Green Light Off Orango Light	Loop has been of No Loop detect:	letected within the last 3 days.
			Right	-	Off Off	Not shutting down b	wn by loop detection.
	Port LED (Lett)					ED (Right)	
5–5. Cascade connections Displays Ports 1- setting.			the Auto MDI/M 22 are set to "Dis	DI-X function set able," and Ports	ttings. 23-24 are set to	"Enable" at factory default	
Dat	e issued	June 1, 2	015			1	
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Model Name	Switch	Switch-S24GPWR		Dre last Creeding	401-25249-ID-SP03			
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6.	Software Sp	pecifications						
	6–1. Configurat	ion	Control (1) Conf (2) Conf (3) Conf	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. (3) Configuration from a remote terminal via the Internet.				
	6-2. Switching	Hub Control	Switchin (1) Cont (2) Cont The swit (1) Func	g Hub can be controlled by the following procedure rol from an asynchronous terminal connected to the rol from a remote terminal using TELNET and TC sching Hub operation status can be checked using tion to display the CPU usage and memory usage	es: le console port. P/IP network connection. the following functions.			
	6-3. Rebooting	75	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 defaultThe reboot timer function can also be used in each mode.					
	6-4. Supported	d Agent	Manager Data tra	nent protocol : TELNET (nsfer protocol : TFTP (RFC854) RFC783)			
	6-5. System lo	g	Maximur	n number to be kept: 1,024				
	6-6. Loop dete	ection	 Turns on the port LED with a orange light when a loop occurs in the corresponding At this time, the relevant port automatically shuts down (default setting: 60 sec.) the prevent loop from occurring. 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. The setting is kept even when the power is turned OFF. Loop detection port Enabled: Ports 1 to 22 (factory default setting) Disabled: Ports 23 and 24 (factory default setting) Loop shutoff time 60 to 86,400 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 					
	6-7. Others		TFTP C SNTP C ZEQUO PoE tim	Client (Upgrades the software and saves/loads conf Client 0 assist Plus er applications	iguration information.)			
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Model Name	Switch-S24GPWR PN25249-ID			401-25249-ID-SP03	
Model No.			Product Specification	Page 7 of 10	
7.	Layer 2 Switching Function	ons			
	7-1. VLAN	IEEE802 Port Bas Number	2.1Q Tag VLAN Protocol se VLAN . of VLAN registrations: 256 (including default)		
	7-2. Trunking	IEEE802 Up to 8	2.ad Link Aggregation function (Manual) groups can be created (up to 8 ports per group).		
	7-3. Port Monitoring	Traffic of the target port can be copied to the specified port and transmitted. (Two or more target ports can be specified.)			
	7-4. QoS	IEEE802.1p Four levels of Priority Queue supported Scheduling Method: Strict Priority Queuing (SPQ: Strict priority queuing)			
	7-5. PoE power supply function	ion IEEE802.3af PoE power supply function. Up to 124 W of power can be supplied to ports 1 to 24 in total. (Maximum power supplied to a port: 15.4 W) Supply method :Alternative A(Cable signal lines 1, 2, 3, and 6 are used.)			
	7-6. PoE scheduler function	PoE power supply control can be scheduled. The setting can be configured by the month, week, day or specific date. The maximum number of schedules to be registered: 32			
8.	WEB Browser-based Con	trol (WI	EB control screen)		
	8-1. System Requirements				
	8-1-1. WEB Browser Microsoft Internet Explorer 11				
	8-1-2. Runtime for Executing Java Runtime Environment (Ver. 1.4 and above)				

Java Applet					
8-2. Configuration Function					
8-2-1. Switch Configuration	Administration Configuration IP Address Configuration Port Configuration System Security Configuration ID/Password Change Forwarding Database(FDB) Configuration Time (SNTP) Configuration VLAN Configuration Port Monitoring Configuration QoS Configuration Static ARP Table Link Aggregation	Loop Detection Configuration Ping Execution Exception Handler Watchdog Timer PoE Configuration Statistics Software Update Configuration File Transfer System Reboot Configuration System Log Save Settings Storm Control Configuration			
8-2-2. Time Configuration	SNTP setting				
8-3. Monitoring Configuration					
8-3-1. General Information	System Information Setting :Display of host name (sysName)				

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Model Name	Switch-S24GPWR		401-25249-ID-SP03
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9.			
	9-1. Port 1 - 24		

	Status MDI-X MDI	Pin No. Signal	1 BI_DB+ BI DA+	2 BI_DB-	3 BI_DA+ BL DB+	6 BI_DA-	4 BI_DD+ BLDC+	5 BI_DD-	7 BI_DC+ BL DD+	8 BI_DC-	Pin No212345678
9-	-2. Conse	ole port Pin No. 1 2 3 4	S	iignal NC NC TXD GND	Pin N 5 6 7 8	lo.	Signal GND RXD NC NC		ישעיש		Pin No 1 2 3 4 5 6 7 8

10. Installation Procedures and Accessories

10–1. Installation Procedures	Mounting to rack				
10–2. Accessories	 Installation Guide CD-ROM Rubber foot Mounting bracket (for 19-inch rack) Screw (for 19-inch rack) Screw (for fixing the main unit and the 19 inch rack mount bracket) Power cord (CEE7/7)(*) (*) The attached power cord is dedicated for AC 100 - 240 V use. 	:1 :1 :4 :2 :4 :8 :1			

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Model Name	Switc	h-S24GPWR		401-25249-ID-SP03			
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11	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 handle the power cord with wet hand. Deviation could lead to electric shock, and/or equipment failure.						
 (3) Do not handle this Switching Hub and connection cables during a thunderstorm. Deviation could lead to electric shock. (4) Do not disassemble and/or modify this Switching Hub. Deviation could lead to fire, electric shock, and/or equipment failure. 							
						 (5) 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. (6) 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 Switching Hub. Deviation could lead to fire, electric shock, and/or equipment failure. (7) 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. (8) Do not place this Switching Hub in harsh environment (such as near water, high humid, and/or high dust). Deviation could lead to fire, electric shock, and/or equipment failure. (9) Do not place this Switching Hub under direct sunlight and/or high temperature. Deviation could lead to high internal temperature and fire. (10) Do not install this Switching Hub at the location with continuous vibration or strong shock, or at the unstable location. Deviation could lead to explosion and/or fire. (11) Do not put this Switching Hub into fire. Deviation could lead to explosion and/or fire. (12) Do not use the supplied power cord for anything other than this product. Deviation could lead to fire, electric shock, and/or equipment failure. (13) Unplug the power cord in case of equipment failure. (14) Unplug the power cord in case of equipment failure. 	
	 (14) Connect this Switching Hub to ground. Deviation could lead to electric shock, malfunction, and/or equipment failure. (15) Connect the power cord firmly to the power port. Deviation could lead to electric fire, shock, and/or malfunction. 						
	(16) 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							
	(17) Handle the Switching Hub carefully so that fingers or hands may not be damaged by twisted pair port, console port, or power cord hook block.							
	(18) To connect a power receiving equipment supporting IEEE802.3at to this Switching Hub, use a cable rated Cat5e or higher.							
12.	. Basic Instructions for the Use of This Product							
	(1) For inspection and/or repair, consult the retailer.							
	(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 Switching Hub 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 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 Switching Hub in the environment with the characteristics listed below. (Store and/or use this Switching Hub 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 Switching Hub in place where ambient temperature is from 0 to 45℃. 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 Switching Hub. Blocked ventilator induces the heat accumulation inside, causing equipment failure and/or malfunction. If used at a temperature out of the operating temperature range, the protection equipment becomes activated and PoE power supply stops.							
	(12) When using two Switching Hubs, do not stack them. When you place them side by side, allow for a space of 20 mm or more between them.							
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Date	revised	Feb. 22, 2016						