

Model Name	Switch-M16eGLPWR+	Product Specification	401-28168-MY-SP02
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<div>1. Summary</div> <div>Switch-M16eGLPWR+ is an Ethernet Switching Hub with management function having 16 ports of 10/100/1000BASE-T and two pairs of 10/100/1000BASE-T ports and SFP extension slot, one of which is selectable. Ports 1 to 16 support IEEE802.3at PoE power supply function.</div> <div>2. Feature</div> <div>(1) Has wire-speed Layer 2 switching function.</div> <div>(2) Ports 1 to 16 are 10/100/1000BASE-T ports corresponding to auto negotiation. Also their speed and communication mode can be switched by configuration. Ports 17 and 18 can be used as a 10/100/1000BASE-T port corresponding to auto negotiation or an SFP extension slot exclusively.</div> <div>(3) Ports 1 to 16 can supply power conforming with IEEE802.3at. Supplying power up to 30 W per port, and up to 185 W in total is possible.</div> <div>(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. (This function does not work if the port communication configuration is set at Fixed or Link Aggregation. Ports 1 to 16 are set at MDI-X. (default))</div> <div>(5) Telnet allows remote configuration changes and verifications of the Switching Hub. Remotely configure the PoE settings for each port (Ports 1 to 16).</div> <div>(6) 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.</div> <div>(7) Embedded power saving mode detects the connection status automatically and saves power consumption to minimum.</div> <div>(8) VLAN function allows free grouping of up to 256 VLANs.</div> <div>(9) The IEEE802.1w Rapid Spanning Tree Protocol is supported, allowing to build a system with redundancy.</div> <div>(10) The IEEE802.1p compatible QoS function is supported.</div> <div>(11) The IEEE802.1X compatible user authentication function (EAP-MD5/TLS/PEAP) is supported.</div> <div>(12) Has an Internet Mansion function, which ensures security between each door.</div> <div>(13) 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.</div> <div>(14) The PoE scheduler function enables scheduling of PoE power supply control.</div> <div>(15) Supports ZEQUO assist Plus. Processes from introduction to maintenance can be performed easily.</div>			
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3. Rated/Environmental Conditions

3-1. Power supply	AC100-240V, 50/60Hz, 4.5A (with a built-in power supply)
3-2. Power consumption	Normally, Max.229W(27.5W when not supplying power), Min.17.4W
3-3. Operating environment	Temperature: 0 - 50°C Humidity: 20 - 80%RH (no condensation)
3-4. Storage environment	Temperature: -20 - 70°C Humidity: 10 - 90%RH (no condensation)
3-5. Immunity	ESD : IEC61000-4-2 (10kV) Radiated : IEC61000-4-3 Level2 EFT/Burst : IEC61000-4-4 Level3 Surge : IEC61000-4-5 Level4 (AC line) Conducted : IEC61000-4-6 Level2 Power frequency magnetic field : IEC61000-4-8 Level4 Voltage dips and interruptions : IEC61000-4-11

4. Form

4-1. Form and materials/colors	Dimensions : 44mm (Height) × 330mm (Width) × 230mm (Depth) (Excluding protruding sections) Case material : SECC Color : Main unit: Green 03, Front face: Black 03, Face plate label: Black 04
4-2. Mass (Weight)	3,100g

5. Hardware Specifications

5-1. Interface	<p>Twisted pair port 1-18 : RJ45 connector (*1) Transmitting and receiving network system: IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3ab 1000BASE-T</p> <p>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 5e) Maximum transmission distance : 100m Auto-Negotiation : Communication speed and full/half duplex are automatically recognized. The setting can be fixed to 10Mbps, 100Mbps, or 1000Mbps and full duplex or half duplex. Up to 30 W of power can be supplied to ports 1 to 16.</p> <p>*1 Embedded power saving mode detects the connection status automatically and saves power consumption to minimum. *2 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.</p> <p>SFP extension slot 17,18 SFF-8472 (DMI: Diagnostic Monitoring Interface) *Select either of RJ45 or SFP for use Optional Accessories : 1000BASE-SX SFP Module (PN54021K-MY) 1000BASE-LX SFP Module (PN54023K-MY)</p>
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5. Hardware Specifications																					
5-2. Switching mode	<table><tr><td>Switching method</td><td>:Store and Forward</td></tr><tr><td>Switching capacity</td><td>:36Gbps</td></tr><tr><td>Packet transfer capability</td><td>:Non-blocking Max 1,488,000pps/port (1000Mbps) Max 148,800pps/port (100Mbps) Max 14,880pps/port (10Mbps)</td></tr><tr><td>MAC Address table</td><td>:Max 8K entry/unit Automatic learning can be enabled/disabled for each port. Fixed registration is enabled.</td></tr><tr><td>Buffer memory</td><td>:512K Byte/unit</td></tr><tr><td>Flow control</td><td>:half-duplex Back pressure full-duplex IEEE802.3x</td></tr><tr><td>Aging timeout</td><td>:10 to 1,000,000 sec. (Default: 300 sec.)</td></tr><tr><td>Jumbo frame supported</td><td>:9KB</td></tr><tr><td>Transmittable frames</td><td>:EAP,BPDU</td></tr></table>			Switching method	:Store and Forward	Switching capacity	:36Gbps	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 Automatic learning can be enabled/disabled for each port. Fixed registration is enabled.	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
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5-3. Terminal emulator connection	<table><tr><td>Console port</td><td>:RJ45 connector 1 port</td></tr><tr><td>Transmission mode</td><td>:RS-232C (ITU-TS V.24)</td></tr><tr><td>Emulation mode</td><td>:VT100</td></tr><tr><td>Communication configuration</td><td>:9,600bps, 8bit, None Parity control, Stop bit 1 bit</td></tr></table>			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										
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5-4. LED display	<p>(1) POWER(Power) LED Green Light :Power is ON Off :Power is OFF</p> <p>(2) STATUS/ECO LED (Status/ECO mode) 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)</p> <p>(3) PoE LIM. LED (PoE limit) Off Supplying power in the range from 0 to 170 W. Green Light : Supplying power in the range from 170 to 185 W. Orange Blink : A single port's power supply is exceeding the upper limit, or the total power supply of the Switching Hub is exceeding 185 W.</p> <p>(4) FAN LED (Fan sensor) Green Light : System is operating normally. Orange Blink : Fan fault is occurring.</p> <p>(5) TEMP LED (Temperature sensor) Green Light : The system is normally operating. Orange Blink : The temperature exceeded the set threshold of the internal temperature sensor. Set threshold of the internal temperature sensor: 65° C (factory default)</p> <p>(6) LOOP HISTORY LED (Loop History mode) Green Light : Operating in Loop History mode. Green Blink : Loop is occurring, or occurred within the last 3 days.</p>																				
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6. Software Specifications			
6—5. Supported MIB	RFC1213-MIB (MIB II) (RFC 1213) SNMPv2-MIB (RFC 1907) IP-FORWARDING-MIB (RFC 2096) only IpCidrRouteTable RMON-MIB (RFC 2819) Group 1,2,3,9 BRIDGE-MIB (RFC 1493) P-BRIDGE-MIB (RFC 2674) Q-BRIDGE-MIB (RFC 2674) IF-MIB (RFC 2233) Other than IfTestTable RADIUS-AUTH-CLIENT- MIB (RFC 2618) POWER-ETHERNET-MIB (RFC 3621) deexSoppConfigTable, Other than dotlxDuppStatusTable IEEE8021-PAE-MIB (IEEE802.1X MIB) IEEE8023-LAG-MIB (IEEE802.3ad MIB) RSTP-MIB		
6—6. System log	Maximum number to be kept: 1024 Transfers system logs to the Syslog server (IPv4)		
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 (default setting: 60 sec.) to 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 16 (factory default setting) Disabled: Ports 17 and 18 (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 the loop is eliminated.		
6—8. Others	Syslog Client (Transfers system logs to the Syslog server.) TFTP Client (Upgrades the software and saves/loads configuration information.) SNTP Client Login RADIUS (login authentication function by the RADIUS server) ZEQUO assist Plus PoE timer applications		
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7. Layer 2 Switching Functions

7-1. Spanning Tree	IEEE 802.1w Spanning Tree Protocol, Rapid Spanning Tree Protocol
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 (LACP/Manual) Up to 8 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.)
7-5. Multicast	IGMP Snooping (IGMP v1/v2) function Multicast filtering function
7-6. QoS	IEEE802.1p Four levels of Priority Queue supported Scheduling Method: Priority Queuing (PQ:Strict priority queuing) Weighted Round Robin (WRR:Weighted round robin scheduling) DSCP Mapping function
7-7. Authentication Function	IEEE802.1X Port-based authentication EAP Packet Forwarding function (Enable/disable EAP transmission can be specified for each port.)
7-8. PoE power supply function	IEEE802.3at PoE power supply function. Up to 185 W of power can be supplied to ports 1 to 16 in total. (Maximum power supplied to a port: 30 W) Supply method :Alternative A(Cable signal lines 1, 2, 3, and 6 are used.)
7-9. 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
7-10. Ring protocol	Redundancy is enabled by ring configuration. (Up to one group can be registered.)

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8. WEB Browser-based Control (WEB control screen)

8-1. System Requirements		
8-1-1. WEB Browser	Microsoft Internet Explorer 11	
8-1-2. Runtime for Executing Java Applet	Java Runtime Environment (Ver. 1.4 and above)	
8-2. Configuration Function		
8-2-1. Switch Configuration	<div>Administration Configuration</div> <div>IP Address Configuration</div> <div>SNMP Configuration</div> <div>Port Configuration</div> <div>System Security Configuration</div> <div>ID/Password Change</div> <div>Forwarding Database(FDB) Configuration</div> <div>Time(SNTP) Configuration</div> <div>VLAN Configuration</div> <div>Link Aggregation Configuration</div> <div>Port Monitoring Configuration</div> <div>QoS Configuration</div> <div>Storm Control Configuration</div> <div>Static ARP Table</div> <div>LLDP Configuration</div> <div>802.1X Access Control Configuration</div> <div>Spanning Tree Configuration</div> <div>Loop Detection Configuration</div> <div>DDM Configuration</div> <div>RRP Domain Management</div> <div>Ping Execution</div> <div>Exception Handler</div> <div>Watchdog Timer</div> <div>IGMP Snooping Configuration</div> <div>PoE Configuration</div> <div>Statistics</div> <div>Software Update</div> <div>Configuration File Transfer</div> <div>System Reboot Configuration</div> <div>System Log</div> <div>Syslog Transmission Configuration</div> <div>Save Settings</div>	
8-2-2. Time Configuration	SNTP Setting	
8-3. Monitoring Configuration		
8-3-1. General Information	System Information Setting : Display of detailed description (sysDescr) Display of contact (sysContact) Display of installation location (sysLocation) Display of host name (sysName)	

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9. Connector Pin Arrangement

9-1. Port 1 - 18

Status	Pin No.	1	2	3	6	4	5	7	8
MDI-X	Signal	BI_DB+	BI_DB-	BI_DA+	BI_DA-	BI_DD+	BI_DD-	BI_DC+	BI_DC-
MDI	Signal	BI_DA+	BI_DA-	BI_DB+	BI_DB-	BI_DC+	BI_DC-	BI_DD+	BI_DD-

9-2. Console port

Pin No.	Signal	Pin No.	Signal
1	NC	5	GND
2	NC	6	RXD
3	TXD	7	NC
4	GND	8	NC

10. Installation Procedures and Accessories

10-1. Installation Procedures

Mounting to rack

10-2. Accessories

(1) Installation Guide	:1
(2) CD-ROM	:1
(3) Rubber foot	:4
(4) Mounting bracket (for 19-inch rack)	:2
(5) Screw (for 19-inch rack)	:4
(6) Screw (for fixing the main unit and the 19 inch rack mount bracket)	:8
(7) Power cord (BS1363)(*)	:1
(*) The attached power cord is dedicated for AC 100 - 240 V use.	

11. Optional Accessories

11-1. 1000BASE-SX SFP Module (Model No. :PN54021K-MY)

Fiber optic port connector type :LC connector (Duplex)

Standards :IEEE802.3z 1000BASE-SX

Transmission speed : 1000Mbps, full duplex

Compatible cable :Fiber cable

50/125 μ m Multi Mode Fiber

62.5/125 μ m Multi Mode Fiber

Maximum transmission distance :550 m at 50/125 μ m

220 m at 62.5/125 μ m

11-2. 1000BASE-LX SFP Module (Model No. :PN54023K-MY)

Fiber optic port connector type :LC connector (Duplex)

Standards :IEEE802.3z 1000BASE-LX

Transmission speed : 1000Mbps, full duplex

Compatible cable :Fiber cable

10/125 μ m Single Mode Fiber

50/125 μ m Multi Mode Fiber

62.5/125 μ 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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<div>12. Prohibitions when Using the Product to Guarantee Safety</div> <div>The manufacturer assumes no responsibility for any problems occurring when the following conditions are not satisfied. Observe the following items when using the product.</div> <div><div><div>(1)</div><div>Do not use power supply other than AC 100 – 240 V.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(2)</div><div>Do not handle the power cord with wet hand.</div><div>Deviation could lead to electric shock, and/or equipment failure.</div></div><div><div>(3)</div><div>Do not handle this Switching Hub and connection cables during a thunderstorm.</div><div>Deviation could lead to electric shock.</div></div><div><div>(4)</div><div>Do not disassemble and/or modify this Switching Hub.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(5)</div><div>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.</div><div>Damaged power cord could lead to fire, short, and/or electric shock.</div></div><div><div>(6)</div><div>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.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(7)</div><div>Do not connect equipments other than 10BASE-T/100BASE-TX/1000BASE-T to twisted pair port.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(8)</div><div>Do not place this Switching Hub in harsh environment (such as near water, high humid, and/or high dust).</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(9)</div><div>Do not place this Switching Hub under direct sunlight and/or high temperature.</div><div>Deviation could lead to high internal temperature and fire.</div></div><div><div>(10)</div><div>Do not insert any modules other than the optional SFP modules (PN54021K-MY/PN54023K-MY) into the SFP extension slot.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div><div>For the latest information about compatible SFP extension modules, check our website.</div></div><div><div>(11)</div><div>Do not install this Switching Hub at the location with continuous vibration or strong shock, or at the unstable location.</div><div>Deviation could lead to injury and/or equipment failure.</div></div><div><div>(12)</div><div>Do not put this Switching Hub into fire.</div><div>Deviation could lead to explosion and/or fire.</div></div><div><div>(13)</div><div>Do not use the supplied power cord for anything other than this product.</div><div>Deviation could lead to fire, electric shock, and/or equipment failure.</div></div><div><div>(14)</div><div>Unplug the power cord in case of equipment failure.</div><div>Deviation, such as keeping connected for a long time, could lead to fire.</div></div><div><div>(15)</div><div>Connect this Switching Hub to ground.</div><div>Deviation could lead to electric shock, malfunction, and/or equipment failure.</div></div><div><div>(16)</div><div>Connect the power cord firmly to the power port.</div><div>Deviation could lead to electric fire, shock, and/or malfunction.</div></div><div><div>(17)</div><div>Unplug the power cord if the STATUS/ECO LED (Status/ECO mode) or TEMP LED (temperature sensor) , FAN LED (Fan sensor) blinks in orange (system fault).</div><div>Deviation, such as keeping connected for a long time, could lead to fire.</div></div></div>			
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<div>13. Prohibitions when Using the Product to Guarantee Safety</div> <div><div>(18) 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.</div><div>(19) To connect a power receiving equipment supporting IEEE802.3at to this Switching Hub, use a cable rated Cat5e or higher.</div></div> <div>14. Basic Instructions for the Use of This Product</div> <div><div>(1) For inspection and/or repair, consult the retailer.</div><div>(2) Use commercial power supply from a wall socket, which is close and easily accessible to this Switching Hub.</div><div>(3) Unplug the power cord when installing or moving this Switching Hub.</div><div>(4) Unplug the power cord when cleaning this Switching Hub.</div><div>(5) Use this Switching Hub within the specifications. Deviation could lead to malfunction.</div><div>(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.</div><div>(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.</div><div>(8) Do not put a strong shock, including dropping, to this Switching Hub. Deviation could lead to equipment failure.</div><div>(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).</div><div>(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.)<ul style="list-style-type: none">- 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.</div><div>(11) Please use this Switching Hub 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 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.</div><div>(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. This space is not necessary if you use supplied connection brackets.</div><div>(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.</div></div>			
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