Switch-M12PWR(PN23129A) Product Summary and Specification

1. Summary

The Switch-M12PWR is managed ethernet switching hub with Power Over Etherent function.
The Switch-M12PWR has 12 10/100BASE-TX ports which have the IEEE 802.3af-compliant feeding power function.
The Switch-M12PWR also has 2 uplink ports which have 2 extension SFP slots with 2 10/100/1000BASE-T ports.

2. Features

(1) 1-12 ports

These are 10/100BASE-TX ports which support auto negotiation.

Or the speed and the communicate mode can be set by manual setting.

13-14 ports

These ports are 10/100/1000BASE-T ports and extension SFP slots which support auto negotiation.

These ports are combo ports. Users can choose to use SFP module or 10/100/1000BASE-T ports.

(2) As for 1-12 ports, feeding power in accordance with IEEE 802.3af is possible.

The feeding power is 15.4W or less per port.

And it is possible to feed power up to 170W in the entire equipment.

(3) Straight/cross cable automatic operation discrimination function is installed in all twisted pair ports.

Users can use straight cable regardless to consider the distinction between the terminal and
the networking equipment.

(This function can no be used when port trunking is set.

By default, port 1-12 are set to the MDI-X setting at the factory shipment.)

(4) Users can connect from remote console using Telnet or Browser, and can check and change the setting of
switching hub. Users can set PoE enabled/disabled from remote console for each port (port 1-12).

(5) By detecting the connection status, power saving mode automatically works, and control and eliminate to
minimum the electricity consumption to the requirement.

(6) Max 256 VLAN group can be set by grouping ports using the VLAN function.

(7) The spanning tree protocol is supported and the system construction with redundancy is possible.

(8) The QoS function in accordance with IEEE802.1p is supported.

(9) User authentication function (EAP-MD5/TLS/PEAP) in accordance with IEEE802.1X is supported.

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3. Specification

function	content
Ports	
Physical ports	12 RJ-45 auto negotiation 10/100 PoE ports
	(IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX, IEEE802.3af PoE)
	Media Type : Auto MDI/MDI-X (factory default: MDI-X)
	Duplex : half or full
	2 combo ports
	each port can be used as either an RJ-45 10/100/1000 port or as a SFP Slot
	RJ-45 Port
	(IEEE802.3 10BASE-T,IEEE802.3u 100BASE-TX,
	IEEE802.3ab 1000BASE-T Gigabit Ethernet)
	SFP Slot
	(for use with SFP transceivers)
	1 RJ-45 serial console port
Physical characteristics	
Dimensions	Height: 44mm Width: 330mm Depth: 230mm
Weight	2,900g
Mounting	
brackets	Mounts an EIA Standard 19 inch rack (include mounting brackets)
Performance	
Switching capacity	14.8Gbps
Mac Address table	16K entries
Packet buffer	1Mbytes
Forwarding rate	10BASE-T : Up to 14,880pps/port
	100BASE-TX : Up to 148,800pps/port
	1000BASE-T : Up to 1,488,000pps/port
Environment	
Operating temp.	0 - 40 deg. C
Operating humidity	20 - 80 %RH (non condensing)
Storage temp.	-20 - 70 deg. C
Storage humidity	10 - 90 %RH (non condensing)
Electrical characteristics	
Voltage	AC 100 - 240V
Current	3.5A
Maximum power rating	231W
PoE power budget	170W
Frequency	50 / 60 Hz

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Immunity	ESD : IEC61000-4-2 (10KV)
	Radiated : IEC61000-4-3 Level2
	EFT/Burst : IEC61000-4-4 Level3
	Surge : IEC61000-4-5 Level3 (AC Line)
	Conducted : IEC61000-4-6 Level2
	Power frequency magnetic field
	              : IEC61000-4-8 Level4
	Voltage dips and interruptions
	              : IEC61000-4-11

Standard and protocols	

General protocols	IEEE802.1D Spanning Tree
	IEEE802.1w Rapid Spanning Tree
	IEEE802.1p CoS Prioritization (8 priority-queuing)
	IEEE802.1Q Tag VLAN (up to 256 VLANs)
	IEEE802.1X Port-Based Network Access Control
	                (EAP-MD5/TLS/PEAP)
	IEEE802.3ad Link Aggregation [LACP or manual]
	                (max.:8 port/group, 7 group/unit)
	IEEE802.3x Flow Control

Supported Agent	RFC1157 SNMP RFC854 Telnet RFC783 TFTP RFC1769 SNTP
Supported MIB	RFC1213 MIB II RFC1493 Bridge-MIB RFC1907 SNMPv2-MIB RFC2233 IF-MIB RFC2618 Radius-Authentication-Client-MIB RFC2674 P-Bridge-MIB RFC2674 Q-Bridge-MIB RFC2819 RMON-MIB group1,2,3 and 9 RFC3621 Power-Ethernet-MIB IEEE802.1w RSTP-MIB IEEE802.1X IEEE8021-PAE-MIB IEEE802.3ad IEEE8023-LAG-MIB