# **Panasonic**

## Switch-M24PWR(PN23249A) Product Summary and Specification

#### 1. Summary

The Switch-M24PWR is managed ethernet switching hub with Power Over Etherent function.

The Switch-M24PWR has 24 10/100BASE-TX ports which have the IEEE 802.3af-compliant feeding power function. The Switch-M24PWR also has 2 uplink ports which have 2 extension SFP slots with 2 10/100/1000BASE-T ports.

## 2. Features

(1) 1-24 ports

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

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

25-26 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 1-24 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 175W 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 1-24 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 1-24).
- (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.

## Switch-M24PWR(PN23249A) Product Summary and Specification

#### 3. Specification

function	content		
Ports			
Physical ports	24 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: 440mm Depth: 256mm		
Weight	3,800g		
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	242W		
PoE power budget	175W		
Frequency	50 / 60 Hz		

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function	content		
Immunity			
	ESD :	EC61000-4-2 (10KV)	
	Radiated :	EC61000-4-3 Level2	
	EFT/Burst : I	EC61000-4-4 Level3	
	Surge :	EC61000-4-5 Level3 (AC Line)	
	Conducted :	EC61000-4-6 Level2	
	Power frequency magnetic field		
	: IEC61000-4-8 Level4		
	Voltage dips and interruptions		
	:	EC61000-4-11	
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, 13 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	