

Product Specification

MC-213x14W, MC-215x14W,
MC-413x14W, MC-415x14W
10/100M x 4 Port TP Media converter-switch



1. Features

- Four TP switching ports with 10/100Mbps auto-negotiation and half-/full-duplex auto-sensing
- Every TP port can auto-detect MDI or MDI-X connection, no crossover cable is needed for switch/hub cascaded
- Support no VLAN or concentration VLAN settings
- Support long Ethernet frame up to 1522 bytes and 4 queues per port for QoS
- Operates at maximum packet filtering and forwarding rate, total bandwidth up to 800Mbps
- Support flow control to prevent packet loss
- Support 100Base-FX fiber transmission standard, can link with other product
- High speed cache memory: 1M Bits
- MAC address memory: 1K
- SFP and 1x9 Transceiver optional

2. Product Description

Our 10/100M fast Ethernet switch is kind of LAN connection equipment, it converts electronic signal into optical signal and transmits over single-mode or multi-mode fiber, which breaks through the limitation of short distance by cable, it makes fiber realize long distance transmission up to hundred miles. Using 10/100M fast Ethernet switch is the ideal solution for long distance transmission that complies to network actuality in the condition that network equipment fiber port is too expensive.

3. LED Indicator

LED	Function	Status	Working status
PWR	Power indicator	ON	Power is on
		OFF	Power is off
LINK/ACT	Link/data indicator	ON	Link through
		OFF	Not link through
		Flash	Receive or transmit data package
SPD	Speed indicator	OFF	10M
		ON	100M
FDX	Full/half duplex indicator	OFF	Half duplex
		ON	Full duplex

4. Technical Specification

Parameter	Specifications
Access mode	10/100Mbps
Standard	IEEE802.3 10Base-T Ethernet, IEEE802.3u, 100Base-TX/FX Fast Ethernet, IEEE802.3x Flow control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree
Wavelength	850nm/1310nm/1550nm
Transmission distance	Dual-fiber multi-mode: 2Km; Dual-fiber single-mode: 25/40/60/80/100/120Km; Single-fiber single-mode: 25/40/60/80/100Km Category-5 twisted pair: 100m
Port	One RJ45 connector, connected to STP/UTP category-5 twisted pair One fiber port: Multi-mode - SC/LC or ST (fiber size: 50,62.5/125μm) Single mode - SC/FC/LC fiber port (fiber size: 9/125μm) Single-fiber single-mode - SC/FC/LC fiber port (fiber size: 9/125μm)
Conversion mode	Medium conversion, storing and forwarding
MAC address table	1 K
Buffer space	1Mbit
Flow control	Full duplex state: flow control; Half duplex state: back pressure mode
Delay	9.6us
Bit error rate	<1/1000000000
MTBF	100,000 hours

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Parameter	Specifications
LED	POWER (power), FX LINK (fiber connection/action) FDX (TP full duplex mode), SPD (with a transmission rate of 100M) TP 1/2/3/4 LINK/ACT (1/2/3/4-port twisted pairs connection action)
Power	DC5V/1A (external)
Power consumption	3.5W
Operating temperature	-10~55°C
Operating humidity	5%~90%
Storage temperature	-40~70°C
Storage humidity	5%~90% (non-condensing)
Dimensions	26 x 70 x 98 (mm) (Height x Width x Depth) (external power)

5. Ordering Information

Model	Speed	Mode	Waveleight	Distance	Connector	Power
MC-213x14W	10/100	SF SM	TX1310/TX1550	20km	SC/UPC	5V DC
MC-215x14W	10/100	SF SM	TX1550/TX1310	20km	SC/UPC	5V DC
MC-413x14W	10/100	SF SM	TX1310/TX1550	40km	SC/UPC	5V DC
MC-415x14W	10/100	SF SM	TX1550/TX1310	40km	SC/UPC	5V DC