



mCS-170

10/100Base-T to 100Base-FX(BX)

Managed Fiber Media Converter



PRODUC DESCRIPTION

mCS-170 is a fully managed Converter providing 10/100Base-T access port on to 100Mbps fiber optic link. It is designed for Metro Ethernet Fiber Optic application as well as for IP based control, security and surveillance systems.

With full IEEE 802.1p/q protocol supporting, the **mCS-170** can make network application easy to deploy.

Aiming to next generation FTTX requirement, adapts new switching FPGA/ASIC to make **mCS-170** evolve as Layer 2 plus switch. The “**Q-in-Q VLAN Tunneling**” creates a new standard feature in FTTX to solve bottle neck of backbone network and provide VoIP, IPTV and triple player user under high broadband service environment. It **optionally** features the dry contacts inputs and output that enables to transmit alerts and remotely activate local output. The **mCS-170** offers optional managed fiber optical link with fast switching response time.

The **mCS-170** offers SFP (Small Form Factor Pluggable) transceiver flexibility and SC connectors supporting multimode, single mode and single fiber links.

mCS-170 is fully compliant with IEEE 802.3ah standards supporting QoS, flow control, RMON, MAC and 802.1x network access control and more. The installation & operation procedures are simple & straightforward. The standard SNMP management as well as WEB base management makes **mCS-170** become the best choice of network administrator.

Diagnostic **LEDs** located in the front panel indicate the real time operating status. Moreover, if installed in the manageable **mCRC** Converter Chassis, network administrator can remotely monitor the **mCS-170** status via Console and standard SNMP manager.

The management provides control and monitoring of all converter parameters, features, functions (including the optional dry contacts), hardware and environment as well as remote upgrade capability.



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Access Technologies ... FTTX, IP Digital Surveillance Networking

KEY FEATURES

- Comply with IEEE 802.3 10BASE-T, 802.3u 100Base-TX & 100Base-FX
- Comply with IEEE 802.3 ah OAM standard;
- Comply with IEEE 802.1p Priority;
- Comply with IEEE 802.1q Tag VLAN
- Support Jumbo Frame up to 4K bytes
- Support QoS Classification based on TOS or Differentiated Services (Diff Serv)
- Support Selectable ISP Ethernet Tag Type
- Support Q-in-Q VLAN Tunneling
- Store and Forward Switching Mechanism
- Auto-Cross over for MDI/MDIX in TP port
- Auto-Negotiation in TP port
- Support Link Path Through
- Support 1K MAC address; 64K Byte Packet Buffer
- Support Loop Back and Diagnostic Test Button
- Network access control via MAC security and 802.1 authentication
- Remote management via SNMP, Web and Telnet with enhanced access security
- Compatible with mCRC Multiple Control Unit management module
- Remote port management function
 - ❖ State Monitor - Model/Media/Link/Speed/Duplex/Activity/Power
 - ❖ Port Configuration - Auto/Speed/Duplex/Flow Control
- IN-BAND Diagnostic (Loop Back Test)
- Isolated dry contact inputs for sensors/alerts (Optional)
- Isolated dry contact control output (Optional)
- Support managed redundant gigabit fiber optical link (Optional)

SPECIFICATIONS

Standard	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/FX (Optional) Dry Contacts: 4 inputs and 1 Output (Optional) Fiber Optical Redundancy
Interface	10/100Mbps RJ-45 port x 1, 100Mbps FX port x 1
LED	Power, FDX/COL, Speed, TP Link/ACT, FO Link/ACT, Status (Optional) Dry In: Dry Contact - short On input (Optional) Dry Out: Control Output-ON
MAC table & Memory buffer	Mac address table: 1K Memory buffer: 64K Priority Queues: 4 Queues Max. Frame Size: 4k bytes
Forward / Filter Rate	10M: 14,880/14,880pps 100M: 148,800/148,800pps
Power	External Power adapter: Input AC 120V-240V; Voltage requirement: DC 5V, Power Consumption: 4W Max
Typical Operation & Storage Temperature	Operation: 0° ~ 50°C, Storage: -20° ~ 60°C Humidity: 5% ~ 90% (non-condensing)
Dimension & Weight	Size: L120xW74xH25 mm (stand alone), Weight: 0.26kg Size: W22.2xH87xD121 mm (Slide in card), Weight: 0.1kg
Emission/Safety	FCC Class A, CE, EN60950