



## MCM-8S22A OVERVIEW

MCM series are complete and versatile solutions for the applications such as FTTx, CWDM, and carrier Ethernet. By the diversified speeds of 1,000Mbps and 10G, Xtramus provides standalone MCM-W products for different applications and can be applied according to your ideal network topology.

Xtramus' MCM series provide various interfaces such as UTP, SFP, SFP+, XFP and CX4. All these interfaces are developed to support the protocols such as 100Base-Tx, 100Base-Fx, 1000Base-T, 1000Base-X, 10GBase-T, 10GBase-LR, 10GBase-SR and 10GBase-CX4, thus making your network more complete and solid.

Equipped 2 ports with 10G SFP+ interface, MCM-8S22A supports either common fiber optical transceiver or 10G /5G/2.5G/1G electrical port with the specific 4-rate SFP+ to RJ45 transceiver.



All MCM series are equipped with real-time LEDs which display the status of each port, thus allowing users to view network status easily.

MCM series provide an easy-to-access Management Webpage, allowing users to view system status, counters, and network statistics.

Also, MCM series support MIB Counter Report including counters such as Packet, Byte, Broadcast packet, Pause Frame, Length: 64 Bytes, Length: 65-127 Bytes, Length: 128-255 Bytes, Length: 256-511 Bytes, Length: 512-1023 Bytes, Length: 1024-1518 Bytes, Unicast packet, Multicast packet, CRC Error, IP Checksum Error, Under Size Packet, and Over Size Packet.

Furthermore, MCM-8S22A has new mechanism design, it's more convenient to replace the cooling fan, so MCM-8S22A became easier to maintain.



## FEATURES

- 4-rate(10G/5G/2.5G/1G) switchable with the 4-rate SFP+ to RJ45 transceiver
- Supports 3R (Re-generation, Re-timing, Re-shaping) Performance for extending network cable coverage
- Supports Jumbo Frame
- Supports D/D (Digital Detection) functioned optical transceivers and overload protection
- Supports easy-to-use Management Webpage that allows users to view system status, counters, and network statistics
- Supports SNMP (Simple Network Management Protocol)
- Supports Link Loss Forwarding
- Supports DDMI (Digital Diagnostics Monitoring Interface), allowing users to view status such as Temperature, Supply Voltage, Tx Bias Current, Tx Power (dBm), and Rx Power (dBm).

## KEY ADVANTAGES

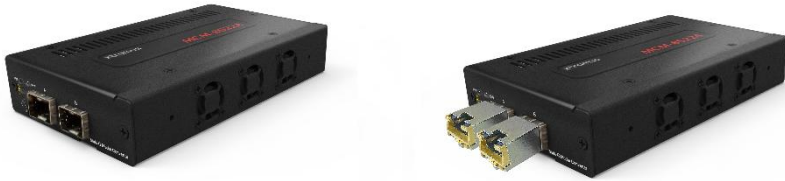
- Fast connection with multi-function
- Provide reliable long-distance connection
- Port supported: common SFP+ fiber optical transceiver or 10G Base-T electrical copper type
- Small portable size case
- Plug and play without extra configuration
- Replaceable cooling fan

## MAIN APPLICATIONS

- Media converter for network backbone
- Connection between fiber to copper or fiber to fiber 10G Ethernet equipment
- Providing protections against lightning and static electricity for Ethernet network and the network main system
- Providing additional network management options
- Can be applied in Telecommunication room, R&D laboratory, Data center, etc



## MCM-8S22A SPECIFICATION

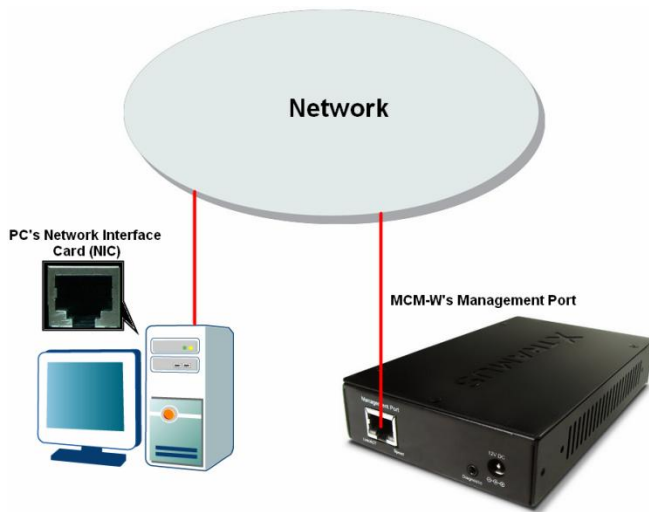
Model	
MCM-8S22A	
Interface Ports	
Port A & Port B	10G SFP+ Port (10GBase-LR & 10GBase-SR) or 10G/5G/2.5G/1G RJ45 Port (with specific SFP+ to RJ45 transceiver)
Transfer Rate	10G
Jumbo Frame	9KB
System Control	
System Control	<ul style="list-style-type: none"><li>➤ Transceiver Power ON/OFF</li><li>➤ Selectable Auto/Force Media Type</li><li>➤ System Upgrade (F/W, FPGA)</li><li>➤ Link Connection Mode: Slave/Segment</li><li>➤ Loopback</li></ul>
Device Status Report	
Status Report	<ul style="list-style-type: none"><li>➤ Information</li><li>➤ Link Status</li><li>➤ Temperature Detection</li><li>➤ Module Detection</li><li>➤ Fiber Module Detection</li><li>➤ Transceiver Overloading</li></ul>
MIB Counter Report *	
Counter Report	<ul style="list-style-type: none"><li>➤ Packet</li><li>➤ Broadcast packet</li><li>➤ Length: 64 Bytes</li><li>➤ Length: 128-255 Bytes</li><li>➤ Length: 512-1023 Bytes</li><li>➤ Unicast packet</li><li>➤ CRC Error</li><li>➤ Under size packet</li><li>➤ Byte</li><li>➤ Pause Frame</li><li>➤ Length: 65-127 Bytes</li><li>➤ Length: 256-511 Bytes</li><li>➤ Length: 1024-1518 Bytes</li><li>➤ Multicast packet</li><li>➤ IP Checksum Error</li><li>➤ Over size packet</li></ul>
Hardware	
Power Source	External Power Adapter * 1 ➤ Input: AC 100 V ~ 240 V, 50 Hz ~ 60 Hz      ➤ Output: DC 12 V
Power Consumption	15W (without fiber module)
Dimension	147 mm x 89 mm x 28 mm
Weight	Approx. 400g
Temperature	➤ Operating: 0°C ~ 40°C (32°F ~ 104°F)      ➤ Storage: 0°C ~ 50°C (32°F ~ 122°F)
Humidity (non-condensing)	➤ Operating: 0% ~ 85% RH      ➤ Storage: 0% ~ 85% RH



## MANAGEMENT WEBPAGE

MCM series are embedded with a Management Webpage, and can be accessed by connecting MCM's **Management Port** to the network which your PC is connected to, as shown in the figure down below.

MCM's Management Webpage allows users to configure test parameters, access counters, make system settings and upgrade system firmware.



The screenshot shows the XTRAMUS MCM-8S22A-W Management Webpage. The page has a dark header with the XTRAMUS logo and the model name. On the left, there is a sidebar menu with options like System, DDM, Management, IP Settings, User Settings, System Settings, SNMP Settings, Link Loss Forwarding, USC Setting, Port A, Port B, Counter, Device Counter, Port A-USC, Port B-USC, Maintenance, Save Changes, Update Firmware, Update FPGA, System Reboot, System Settings, Settings Upload, and Factory Defaults. The main content area displays 'Port Counter Statistics' for Port A and Port B. The statistics include Media Type, Link, Speed, Utilization(%), Line Rate(M bps), Packet, Byte, Broadcast, Multicast, Unicast, Pause, Size:Undersize, Size:64 Bytes, Size:65-127 Bytes, Size:128-255 Bytes, Size:256-511 Bytes, Size:512-1023 Bytes, Size:1024-1522 Bytes, Size:Oversize, and CRC Error.

	Port A	Port B
Media Type	RJ45	RJ45
Link	Up	Up
Speed	10G	10G
Utilization(%)	0.00	0.00
Line Rate(M bps)	0.00	0.00
Packet	108,090,029	33,749,386
Byte	6,917,761,856	2,159,960,704
Broadcast	108,090,029	33,749,386
Multicast	0	0
Unicast	0	0
Pause	0	0
Size:Undersize	0	0
Size:64 Bytes	108,090,029	33,749,386
Size:65-127 Bytes	0	0
Size:128-255 Bytes	0	0
Size:256-511 Bytes	0	0
Size:512-1023 Bytes	0	0
Size:1024-1522 Bytes	0	0
Size:Oversize	0	0
CRC Error	0	0

## RELATED PRODUCTS

### MCS-2160 Chassis:

Chassis for Media Converter Platform



## CONTACT INFORMATION

Website: [www.xtramus.com](http://www.xtramus.com)  
E-mail: [Sales@xtramus.com](mailto:Sales@xtramus.com)  
[TS@xtramus.com](mailto:TS@xtramus.com)  
TEL: +886-2-8227-6611  
FAX: +886-2-8227-6622