

10Gigabit Ethernet Media Converter Datasheet

Flexible and Reliable Network Distance Extension Solution.



Overview

The high-performance media converter improves network connectivity and provides sophisticated management capabilities. It is the first 10Gbps media converter in the industry with standalone secure management, making it the best option for enterprise and telecom remote management and monitoring. They allows for remote management via an intuitive web interface, command line interface (CLI) and SNMP protocol, enabling easy monitoring and configuration of the converter from anywhere. Our cutting-edge converter features one 10GBASE-T copper port and two 10G SFP+ ports, providing ultra-fast connectivity for devices with RJ45 interfaces as well as greater flexibility in fiber-optic cabling options. This powerful yet compact solution makes it the ideal choice for businesses looking to boost their network speed and functionality.

Benefits

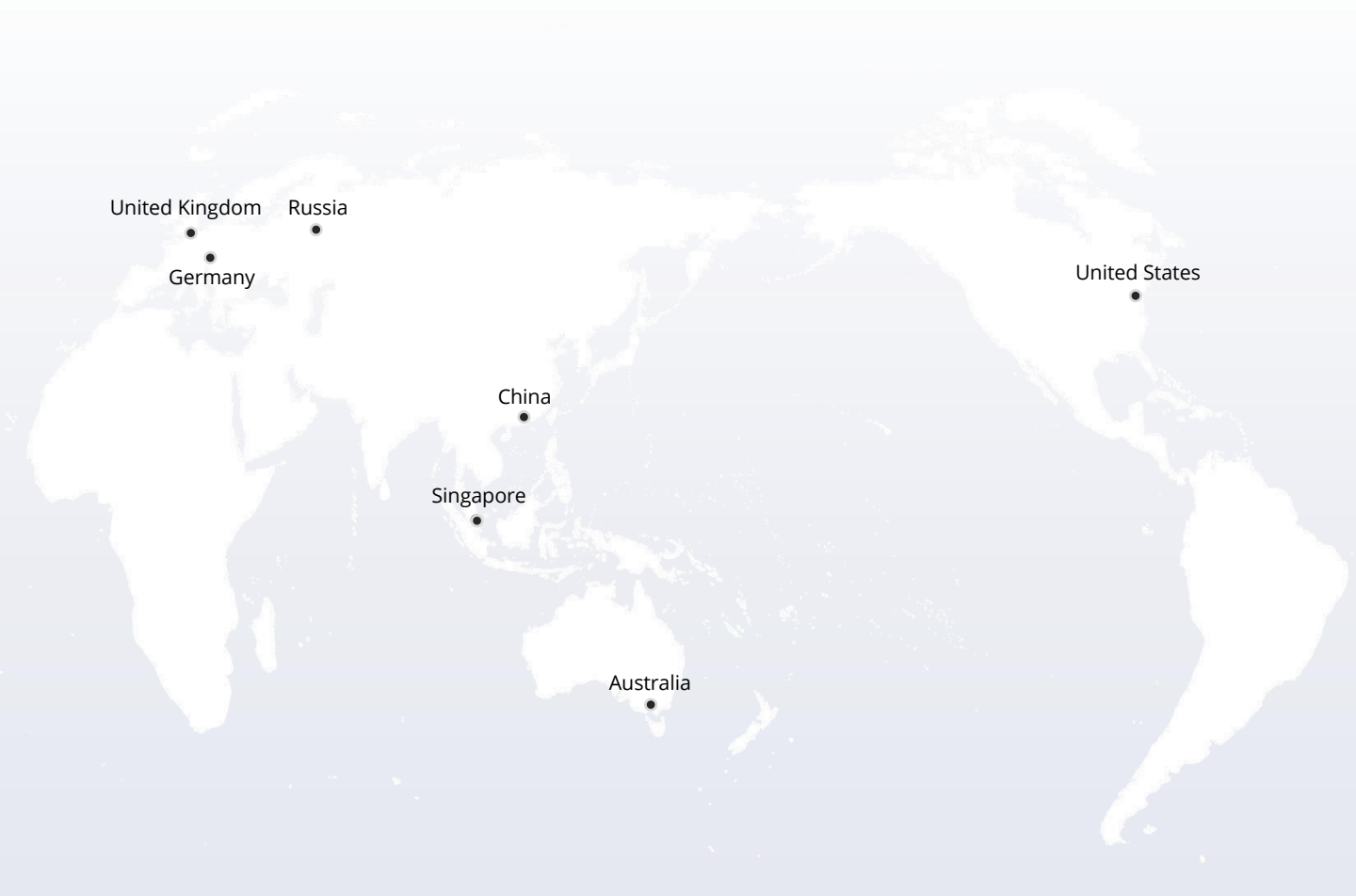
- Auto-Negotiation and Auto-MDI/MDIX on RJ45 Port
- Auto-negotiation of Half-Duplex / Full-Duplex Transfer Mode
- Maximum Transmission Distance Depends on the Inserted Modules
- Advanced Features: LFP (Link Fault Pass Through)
- Support WEB UI/SNMP/Telnet/SSH Management

Specification

	MMC-2S	MMC-1S1XMG	MMC-2S1XMG
Copper Interface	/	1x 100M/1G/2.5G/5G/ 10GBase-T RJ45	1x 100M/1G/2.5G/5G/ 10GBase-T RJ45
Fiber Optic Interface	2x 10G/2.5G/1G/100BASE-X	1x 10G/2.5G/1G/100BASE-X	2x 10G/2.5G/1G/100BASE-X
Reset Button	< 5 sec.: System reboot > 5 sec.: Factory default		
ESD Protection	4KVDC Contact / 8KVDC Air		
Power Requirement	DC 12V, 1.5A, external power adapter		
Power Consumption (MMC-2S1XMG)	3.24 watts/11.06 BTU/hr (No loading) / 12.5 watts/42.65 BTU/hr (Full loading)		
Shared Buffe	12Kbytes		
Jumbo Frame	12K		
LED Indicator	System: PWR, (Green) Per 10GBASE-T RJ45 Port:1G/100 LINK/ACT (Green) 2.5G/5G LINK/ACT (Green) 10G LINK/ACT (Amber) Per 10GBASE-X SFP+ Port:1G LINK/ACT (Green) 2.5G LINK/ACT (Green) 10G LINK/ACT (Amber)		
Standards and Protocols	IEEE 802.3u, 100BASE-TX/FX IEEE 802.3ab, 1000BASE-T IEEE 802.3bz, 2.5G/5GBASE-T IEEE 802.3an, 10GBASE-T IEEE 802.3z, 1000BASE-SX/LX IEEE 802.3ae 10GBASE-SR/LR IEEE 802.3x full-duplex flow control IEEE 802.1p Class of Service IEEE 802.1Q VLAN tagging IEEE 802.1ad Q-in-Q VLAN stacking IEEE 802.1ab LLDP RFC 768 UDP RFC 2474 DSCP RFC 791 IP RFC 792 ICMP RFC 2068 HTTP ITU-T G.8032 ERPS Ring		

Specification

	MMC-2S	MMC-1S1XMG	MMC-2S1XMG
Packet Forwarding Method	Store and Forward		
Fabric	40Gbps	40Gbps	60Gbps
Throughput (packet per second)	29.76Mpps@64bytes	29.76Mpps@64bytes	44.64Mpps@64bytes
Address Table	16K entries, automatic source address learning and aging		
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex		
Port Configuration	Port disable/enable Auto-negotiation 100Mbps, 1/2.5/5/10Gbps full and half duplex mode selection Flow control disable/enable		
Port Status	Display each port's link status, speed, auto-negotiation status, duplex mode, flow control status		
VLAN	IEEE 802.1Q tag-based VLAN Up to 256 VLAN groups, out of 4096 VLAN IDs IEEE 802.1ad Q-in-Q tunneling		
Bandwidth Control	Per port bandwidth control Ingress: 16~10,000,000Kbps Egress: 16~10,000,000Kbps		
QoS	Traffic classification based, strict priority and WRR 8-level priority for switching Traffic classification: Cos/802.1p DSCP IP Precedence		
Ring	Supports ERPS, and complies with ITU-T G.8032 Recovery time < 500ms		
Operating Humidity	5 to 95%, non-condensing		
Storage Humidity	5 to 95%, non-condensing		
Operating Temperature	0 to 50 ℃		
Storage Temperature	-10 to 70 ℃		
Weight	407g	429g	437g
Dimensions (Hx Wx D)	1.26"x3.43"x5.31"(32x87x135mm)		



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