



NEW



MSW-4204S

2xGbE, RJ45 + 2x1G/2.5G, RJ45 + 2x 1G/10G SFP+
L2+ Carrier Ethernet Switch With SyncE

The MSW-4204S is the next generation of carrier Ethernet demarcation device (EDD) for business connection in Ethernet virtual connection technology and mobile backhaul transportation beyond 4G service. The MSW-4204S is equipped 2 SFP+ slots as dual rate 1000Base-X/10Gbase-X and 2 ports 10M/100M/1G RJ45 as well as 2 ports 10M/100M/1G/2.5G RJ45 network interfaces. It can be configurable as either UNI or NNI device and enabled to provision E-Line, E-LAN, E-Tree, E-Access services which are CE(Carrier Ethernet) 2.0 compliant for Metro Ethernet network deployments.

The MSW-4204S is CTC first switch product enabled 2.5Gbps data rate to support multigigabit speed. The enterprise will be able to leverage the reliable and secure Ethernet based high speed leased line service and also connect the existing Cat5e/Cat6 cabling infrastructure with IEEE 802.11ac wave 2 WiFi device, small cell or powerful workstations to break through the limitation of 1Gbps rate for content richer applications such as Cloud storage, 4K video streaming or HD teleconferencing.

The MSW-4204S is positioned as an universal network interface device (NID) for most carrier Ethernet access applications. It has built-in hardware based Ethernet OAM engine and is compliant to the latest OAM standards to deliver the committed SLA performance KPIs measurement on a per service basis. The MSW-4204S will also support SyncE and IEEE 1588v2 to ensure the ultra-low delay and jitter for mission critical mobile backhaul transportation.

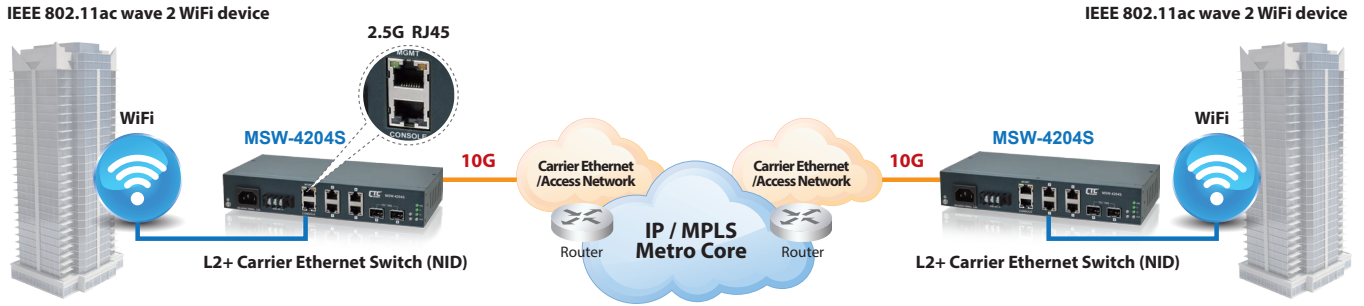
Features

- The next generation of Ethernet demarcation device, at customer premise, fulfilling the large-scale carrier Ethernet deployment for intelligent business connection and mobile backhaul services complied to CE 2.0 standard.
- CE2.0 standards compliant product guarantees the full interoperability with other MEF certified equipment and reduces the risks and cost of Carrier Ethernet network deployment for operators and service providers.
- Advanced clock synchronization features for carrier Ethernet network allows operators to deliver time sensitive services with optimal stability and continuity in the end-to-end connectivity.

Specifications

Interface	10M/100M/1G RJ45x2 + 10M/100M/1G/2.5G RJ45x2 + 1G/10G SFP+ x2	Security	IEEE 802.1x port based access control, MAC based access control authentication, RADIUS authentication, limited MAC address learning, IP/MAC binding, ACL rule based filtering, TACACS+, IP source guard, DHCP snooping/relay option 82, ARP inspection
Console Port	RJ-45 console port x 1 (RS-232)	IP Multicasting	IGMP throttling, IGMP filtering, IGMP fast leave, IGMP snooping v1/v2/v3, MVR, MLD snooping v1/v2
Management port	10/100/1000Base-T RJ45 x 1	Storm Control	Unknown Unicast/Broadcast/Multicast storm suppression
Switching Fabric capacity	54Gbps	Management	Web/Telnet CLI/SNMP/console interface, Web/CLI authentication, SSH v2, HTTPs, port mirroring, RSPAN, syslog, IPv6 management, NTP, SNTP
Filter & Forward rate	14880pps at 10Mbps, 148800pps at 100Mbps, 1488000pps at 1Gbps, 14880000pps at 10Gbps	SNMP Agent	SNMP v1/v2c/v3, RMON Group 1,2,3 and 9
Transmission Method	Store and Forward Switching	Software Upgrade	TFTP/HTTP
Standard	IEEE 802.3 az, IEEE 802.1Qbb, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ae, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1ad, IEEE 802.1D, IEEE 802.1w, IEEE 802.1s, IEEE 802.1x, IEEE 802.3ad	Ethernet OAM	IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731, RFC2544 ITU-T Y.1564
Packet Buffer	8M bits	Timing Synchronization	ITU-T G.8262 SyncE, IEEE 1588v2
MAC Table Size	16K	MPLS feature	MPLS-TP compliant to ITU-T G.8113.1
Max. Packet Size	10K Bytes	LED Display	Power, System, Console, Link, Speed/Act
VLAN Feature	IEEE 802.1Q tagged VLAN(Max. 4K VLAN groups), port based VLAN, MAC based VLAN, protocol based VLAN, private VLAN, IEEE 802.1ad Q-in-Q, VLAN Translation, GVRP	Power Input	100V ~ 240VAC, -36 ~ -60VDC
QoS Feature	Supports Hierarchical Qos, IEEE 802.1Qbb, Priority based flow control, IEEE 802.1p 8 priority queues per port, CoS based on switch port/VLAN ID/DSCP/TCP/UDP port, IEEE 802.1p priority tag remarking, DSCP remarking, Port based ingress/egress rate limit 3 colors marker-CIR/EIR/Burst bandwidth control	Power Consumption	< 15W
L2 switching protection	STP, RSTP, MSTP, ITU-T G.8031/G.8032 Ethernet ring protection	Operating Temperature	0 ~ 50°C
Trunking	IEEE 802.3ad LACP (Max. 3 trunking groups, Max. 6 ports per trunking group)	Storage Temperature	-25 ~ 70°C
		Humidity	5% ~ 90% (non-condensing)
		Dimensions	250 x 117 x 43.8 mm (D x W x H)
		Regulatory	FCC, CE

Application



Ordering Information

Model Name	Description
MSW-4204S-AC	10M/100M/1G RJ45 x 2 + 10M/100M/1G/2.5G RJ45 x 2 + 1G/10G SFP+ slots x 2 L2+ Carrier Ethernet Switch with single AC power supply built-in
MSW-4204S-DC	10M/100M/1G RJ45 x 2 + 10M/100M/1G/2.5G RJ45 x 2 + 1G/10G SFP+ slots x 2 L2+ Carrier Ethernet Switch with single DC power supply built-in
MSW-4204S-AD	10M/100M/1G RJ45 x 2 + 10M/100M/1G/2.5G RJ45 x 2 + 1G/10G SFP+ slots x 2 L2+ Carrier Ethernet Switch with AC & DC power supply built-in

Accessories

10G SFP+ Transceiver Module

Model Name	Description
SFM-1000-SR85	10G SFP+ SR/SW MMF 300m, 850nm VCSEL, 10G Ethernet/FC/SDH/SONET
SFS-1010-LR31	10G SFP+ LR/LW SMF 10km, 1310nm DFB DML, 10G Ethernet/FC/SDH/SONET
SFS-1040-ER55	10G SFP+ ER/EW SMF 40km, 1550nm DFB EML, 10G Ethernet/FC/SDH/SONET
SFS-1080-ZR55	10G SFP+ ZR/EW SMF 80km, 1550nm DFB EML, 10G Ethernet/FC/SDH/SONET

Power Type
MSW – 4204S-
 Example: MSW – 4204S