



# MSW-202

## 2x 10/100/1000Base-T + 2x 100/1000Base-X L2+ Gigabit Carrier Ethernet Switch (EDD)

MSW-202 is a carrier class Ethernet Demarcation Device (EDD) with 2x 10/100/1000Base-T Ethernet ports and 2x 100/1000/2500Base-X triple rate SFP fiber ports which enables EPL (Ethernet Private Line) & EVPL (Ethernet Virtual Private Line) services with advanced carrier Ethernet features per the Metro Ethernet Forum (MEF 9 and 14). By supporting link and service Ethernet OAM schemes, the MSW-202 also provides extensive fault detection and diagnostic capabilities to ensure that actual network use complies with pre-agreed service level agreements (SLAs).

### Feature

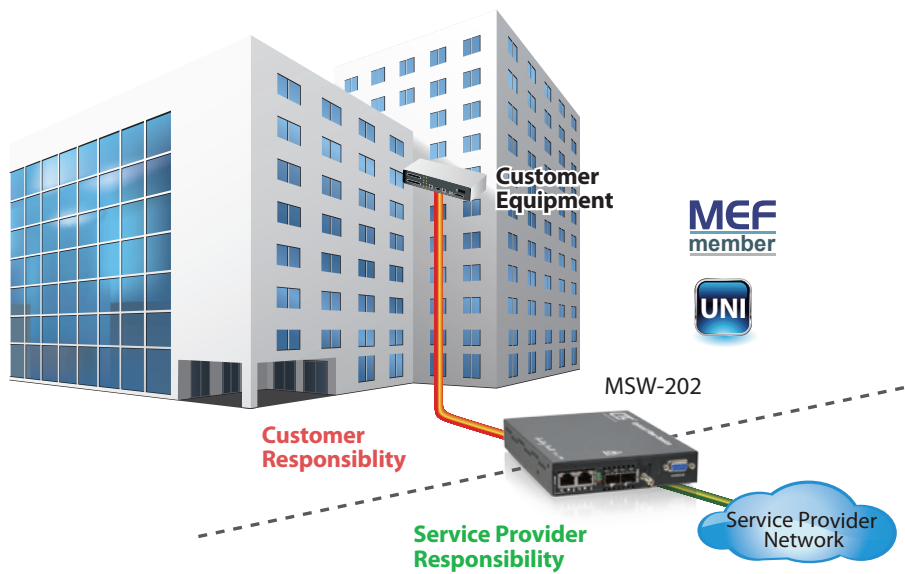
- Complies with MEF CE1.0
- Supports 8K MAC
- Spanning Tree 802.1D, 802.1s, 802.1p
- Supports 802.1Q / 256 active VLANs
- Double VLAN Tagging (C-tag/S-tag) (IEEE 802.1ad) support for ISP application
- Various QoS capability (MAC/port/802.1p/Diffserv)
- Port-based rate limiting
- DHCP Snooping
- IGMP Snooping
- IPv6 support
- IEEE 802.3x and IEEE 802.1x support
- Jumbo frame for up to 9.6K
- Extensive Ethernet OAM support
- IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
- SNMP v1/v2c/v3, Telnet, Web GUI
- IEEE 1588 V2 aware (Optional)

### Specifications

<b>Interface</b>	100/1000Mbps SFP slots x 2 + 10/100/1000Base-T RJ45 x 2
<b>Filter &amp; Forward rate</b>	14880pps at 10Mbps, 148800pps at 100Mbps, 1488000pps at 1Gbps
<b>Switching Fabric Capacity</b>	8Gbps
<b>Transmission Method</b>	Store and Forward Switching
<b>Standard</b>	IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab, 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, IEEE802.3ah, IEEE802.1ag, ITU-T Y.1731, ITU-T G.8031, ITU-T G.8032
<b>Packet Buffer</b>	4M bits
<b>MAC Table Size</b>	8K
<b>Max. Packet Size</b>	9.6K Bytes
<b>VLAN Feature</b>	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
<b>QoS Feature</b>	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
<b>L2 switching protection</b>	STP, RSTP, MSTP, ITU-T G.8031/G.8032 Ethernet ring protection
<b>Trunking</b>	IEEE 802.3ad LACP(Max. 2 trunking groups, Max. 4 ports per trunking group)
<b>Security</b>	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
<b>IP Multicasting</b>	IGMP throttling, IGMP filtering, IGMP fast leave, IGMP snooping v1/v2/v3, MVR, MLD snooping v1/v2
<b>Storm Control</b>	Unicast/Broadcast/Multicast storm suppression

<b>Management</b>	Web/Telnet CLI/SNMP/console interface, Web/CLI authentication, SSH v2, HTTPs, port mirroring, syslog, IPv6 management, NTP, SNMP, sFlow
<b>SNMP Agent</b>	SNMP v1/v2c/v3, RMON Group 1,2,3 and 9
<b>Software Upgrade</b>	TFTP/HTTP
<b>Ethernet OAM</b>	IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
<b>LED Display</b>	Power, System, Console, Link, Speed/Act
<b>Power Input</b>	100V ~ 240VAC, -18 ~ -75VDC
<b>Power Consumption</b>	< 12W
<b>Operating Temperature</b>	0 ~ 50°C
<b>Humidity</b>	5% ~ 90% (non-condensing)
<b>Dimensions</b>	201 x 135 x 35 mm (D x W x H) (with CH01M Chassis)
<b>Regulatory</b>	FCC, CE

**Application**



**Ordering Information**

Model Name	Description
MSW-202-AC	2x SFP Slots in Dual Rate 100/1000Base-X and 2x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with single AC power supply
MSW-202-DC	2x SFP Slots in Dual Rate 100/1000Base-X and 2x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with single DC power supply
MSW-202-AD	2x SFP Slots in Dual Rate 100/1000Base-X and 2x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with AC & DC power supply

Power Type  
**MSW – 202 - □□**  
 Example: MSW – 202 - AC