

2 × GbE/RJ45 + 2 × 1G/SFP L2+ Carrier Ethernet SwitchCE^{2.0}

CTC Union Technologies unveils the first generation of carrier grade Ethernet demarcation device, MSW-202A, which is designed for business connection service delivered by carriers. It is equipped 2 SFP slots as dual rate 100/1000Base-X and 2 ports 10/100/1000Base-T RJ45 network interfaces. It is designed to enable E-Line, E-Access services which are CE (Carrier Ethernet) 2.0 compliant for Metro Ethernet network deployments.

The MSW-202A device enables carriers and service providers to deliver SLA-based network service with extensive fault detection and diagnostic capabilities which are compliant with the latest Ethernet OAM standards such as IEEE 802.3ah, IEEE 802.1ag and ITU-T Y.1731. The CE2.0 compliant functions support EVCs and 3 colors marker QoS traffic management to enable service providers management of bandwidth and to enforce SLA guarantees.

Specifications

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|----------------------------------|---|-----------|
| Interface | Copper port: 2x 10/100/1000Base-T RJ45 Uplink port: 2x 1000Base-X SFP slots Console port: 1x RS-232 in RJ45 | |
| Switching Fabric Capacity | 8Gbps | |
| Packet Forwarding Rate | 14880pps | @10Mbps |
| | 148800pps | @100Mbps |
| | 1488000pps | @1000Mbps |
| Transmission Method | Store and Forward Switching | |
| Packet Buffer | 4M bits | |
| MAC Table Size | 8K | |
| Jumbo Frame Size | 9.6K Bytes | |
| VLAN Feature | IEEE 802.1Q tagged VLAN (4K VLAN groups), IEEE 802.1ad QinQ VLAN, Voice VLAN | |
| | MAC based VLAN, Protocol based VLAN, IP subnet based VLAN, Private VLAN for port isolation | |
| | VLAN translation, GVRP (GARP VLAN registration protocol) | |
| Link Aggregation | Static trunk (SA, DA, IP, TCP/UDP port) | |
| | IEEE 802.3ad LACP, 2 LACP trunk groups Max; 4 port Max. per LACP trunk group | |
| L2 Switching Protection | IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, ITU-T G.8031 ELPS | |
| | ITU-T G.8032 ERPS, Loop Protection | |
| QoS Feature | Hard wired IEEE 802.1p 8 priority queues per port, Traffic scheduling based on strict/WRR priority | |
| | CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port | |
| | IEEE 802.1p priority tag remarking, DSCP remarking | |
| | Per port/Service based ingress/egress rate limit in steps of 100kbps | |
| | 3 colors marker-CIR/EIR/Burst bandwidth control | |
| | Multicast/Broadcast/Unicast storm control with flooding control | |
| Security | Static port security (MAC based), Per port limited MAC learning | |
| | Port based/MAC base/single/multiple IEEE 802.1x access control | |
| | 256 ACL rules based on L2~L4 information | |
| | RADIUS/TACACS+ Authentication, HTTPs & SSH v2, IP/MAC binding, IP source guard & ARP inspection | |
| IP Multicasting | IGMP snooping v1/v2/v3, IGMP proxy, MLD snooping v1/v2, IGMP fast leave | |
| | IGMP query, IGMP filtering/throttling, MVR (Multicast VLAN Registration) | |
| Management | WebGUI/Telnet CLI interface, SNMP v1/v2c/v3, RMON I (1,2,3,9 groups), RFC1213 MIB II, Private MIB | |
| | DHCP client/snooping/relay option 82, TFTP/HTTP based firmware and configuration upgrade | |
| | Port mirroring, Event syslog server, DNS client/proxy, NTPv4 client, UPnP, SFF-8472 DDMI | |
| | IEEE 802.1ab LLDP, Text based CLI configuration download and upload | |

Ethernet Demarcation Device

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|------------------------------|--|
| Ethernet OAM | IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731 |
| Power Input | 100~240VAC ; 18~72VDC |
| Power Consumption | 3.8 Watts Max. |
| Operating Temperature | 0~50°C |
| Storage Temperature | -25~70°C |
| Humidity | 5%~95% (non-condensing) |
| Dimension | 180 × 135 × 30 mm (W×D×H) |
| Certification | CE, FCC class A |

Application

Figure 1 : Business Connection Service

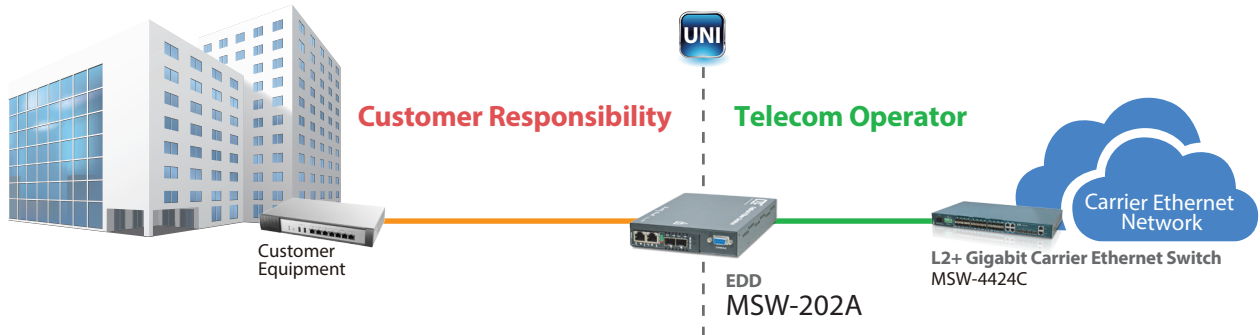
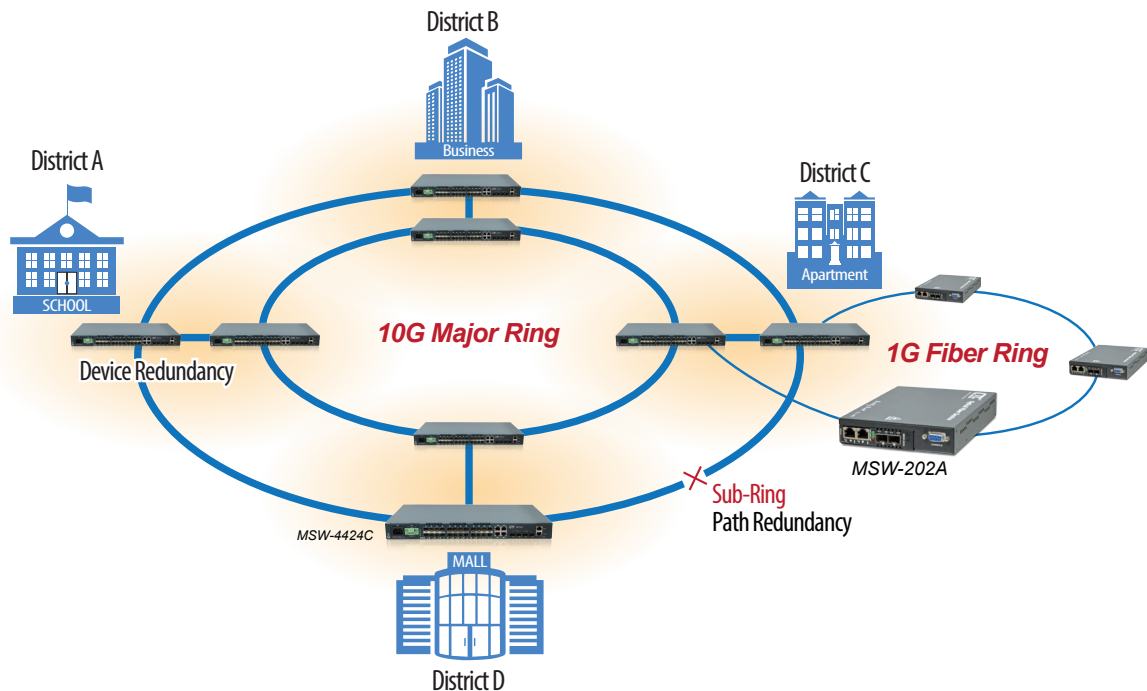


Figure 2 : μ -Ring Protected Ethernet Backbone Application



Ordering Information

| Model Name | Description |
|--------------------|--|
| MSW-202A-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-202A-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-202A-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 |