



MSW-202A

Ethernet Demarcation Device

2 × GbE/RJ45 + 2 × 1G/SFP L2+ Carrier Ethernet Switch

CE^{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

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 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

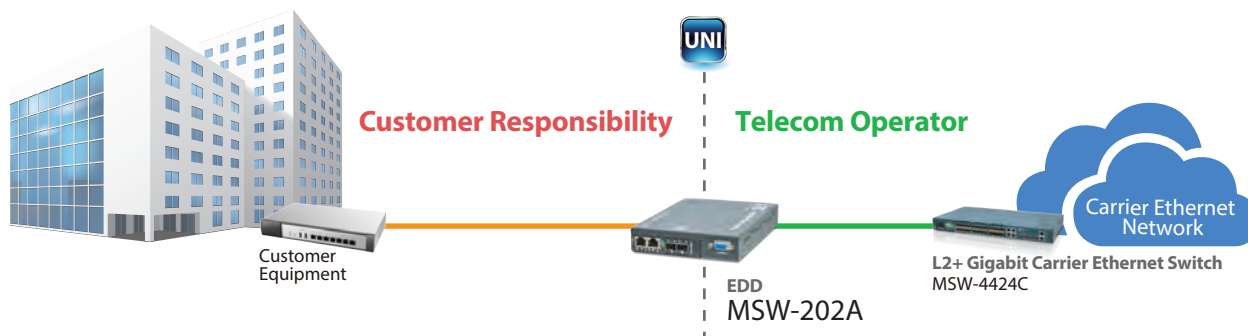
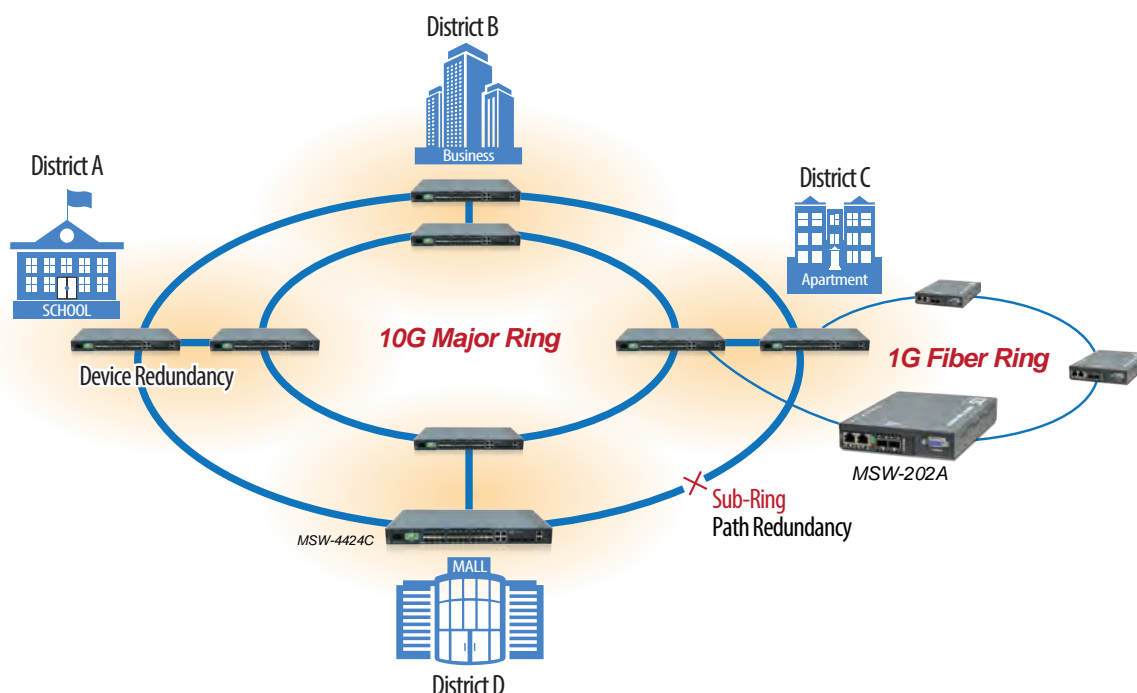


Figure 2 : μ -Ring Protected Ethernet Backbone Application



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