



MSW-404

Ethernet Demarcation Device

4 × GbE/RJ45 + 4 × 1G/SFP L2+ Carrier Ethernet Switch



CTC Union Technologies unveils a new generation of carrier grade Ethernet demarcation device, MSW-404, which is designed for business connection and mobile backhaul transportation service delivered by carriers. It is equipped 4 SFP slots as dual rate 100/1000Base-X and 4 ports 10/100/1000Base-T RJ45 network interfaces. It is designed to enable E-Line, E-LAN, E-Tree services which are CE (Carrier Ethernet) 2.0 compliant for Metro Ethernet network deployments.

The MSW-404 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. With built-in RFC2544 and ITU-T Y.1564 feature sets, the MSW-404 also enables the service providers to perform the SLA verification anytime to ensure the quantitative latency, jitter and throughput delivery performance indexes. 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.

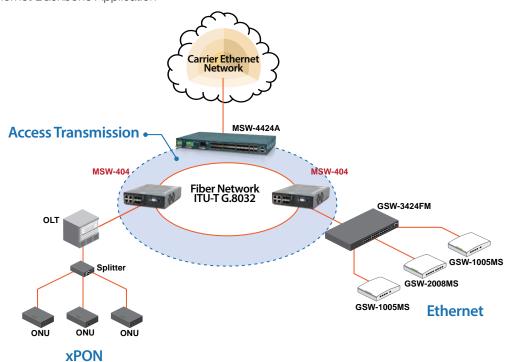
Specifications	
Interface	Copper port: 4x 10/100/1000Base-T RJ45
	Uplink port: 4x 1000Base-X SFP slots
	Console port: 1x RS-232 in RJ45
Switching Fabric Capacity	16Gbps
Packet Forwarding Rate	14880pps @10Mbps
	148800pps @100Mbps
	1488000pps @1000Mbps
Transmission Method	Store and Forward Switching
Packet Buffer	
MAC Table Size	
Jumbo Frame Size	10K Bytes
VLAN Feature	3 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	MAC based VLAN, Protocol based VLAN, IP subnet based VLAN, Private VLAN for port isolation
	VLAN translation, GVRP (GARP VLAN registration protocol)
Link Aggregation	
	IEEE 802.3ad LACP, 4 LACP trunk groups Max; 8 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	and the least of t
	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, IEEE 802.3x flow 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, RSPAN, Event syslog server, DNS client/proxy, NTPv4 client, UPnP
	IPv4/IPv6 management, 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, RFC2544, ITU-T Y.1564
MPLS feature	MPLS-TP compliant to ITU-T G.8113.1
Power Input	100~240VAC; 18~72VDC
Power Consumption	6.72 Watts Max.
Operating Temperature	0~50°C
Storage Temperature	-25~70°C
Humidity	5%~95% (non-condensing)
Dimension	$219.4 \times 167.4 \times 44.5 \text{ mm (W}\times\text{D}\times\text{H)}$
Certification	CE, FCC class A

Application

Figure 1: Ethernet Backbone Application



Ordering Information

Model Name	Description
MSW-404-AC	4x SFP Slots in Dual Rate 100/1000Base-X and 4x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with Single AC Power Supply
MSW-404-DC	4x SFP Slots in Dual Rate 100/1000Base-X and 4x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with Single DC Power Supply
MSW-404-AD	4x SFP Slots in Dual Rate 100/1000Base-X and 4x 10/100/1000Base-T RJ45 OAM Managed Carrier Ethernet Switch with AC & DC Power Supply

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