



# MSW-4424A

## L2+ Gigabit Carrier Ethernet Switch

MSW-4424A layer 2+ managed Gigabit Ethernet switches are positioned as a Carrier Ethernet access switch solution. They are equipped with 24 SFP based 100Base-FX/1000Base-X dual speed optical ports and 4 10GBase-X SFP+ or 1000Base-X SFP uplink ports. The MSW-4424 Series offers the best flexibility and scalability for operators and service providers to deploy their Metro Ethernet networks. Aimed specifically at Metro Ethernet deployment, the specifications of MSW-4424A fully meet the attributes of Carrier Ethernet proposed by the Metro Ethernet Forum. The switches comply with MEF 9 standard to support E-Line/E-LAN services and MEF 14 standard to enable the bandwidth profile configuration for delivering SLA (Service Level Agreement) with predictable end-to-end performance characteristics. MSW-4424A supports advanced service OAM management to rapidly detect and recover from the network incidents in real time

### Features and Benefits

#### Front access and hot swappable design

All of the system modules are front accessible, the hot swappable power and FAN module are designed to keep high network availability without service interruption when components fail

#### Fully dual rate architecture of fiber link port

Dual speed fiber ports offer scalable physical connections for Metro Ethernet network operators

#### Fully Ethernet OAM enable

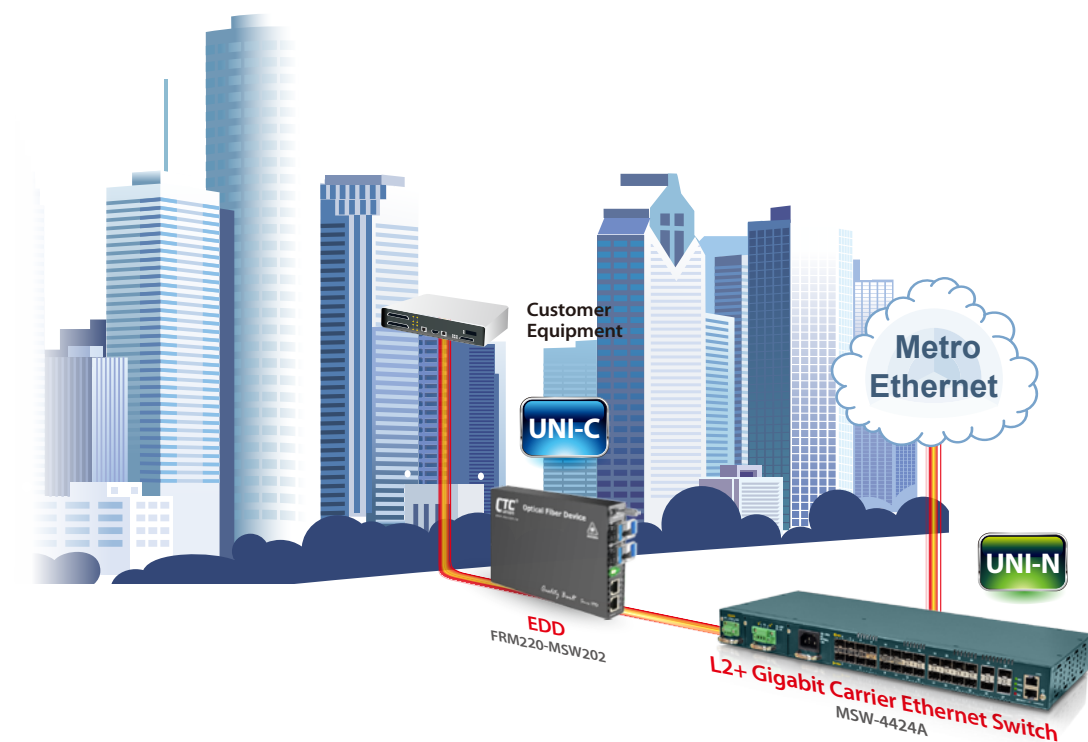
Ethernet OAM features (IEEE 802.3ah/802.1ag/ITU-T Y.1731) help to rapidly detect and recover network faults and save OPEX for operators as well as increase customer satisfaction

### Specifications

<b>Interface</b>	100/1000Mbps SFP slots *24 + 10Gbps SFP+ slots *4
<b>Console Port</b>	RJ-45 console port x 1
<b>Filter &amp; Forward Rate</b>	10M (14880/14880pps); 100M (148800/148800pps) 1000M (1488000/1488000pps)
<b>Transmission Method Standard</b>	Store and Forward Switching
	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 IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731
<b>Packet Buffer</b>	32M bits
<b>Mac Table Size</b>	32K
<b>Max. Packet Size</b>	10K Bytes
<b>VLAN Feature</b>	IEEE 802.1Q tagged VLAN, port based VLAN, MAC based VLAN, protocol based VLAN, private VLAN, IEEE 802.1ad Q-in-Q
<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
<b>L2 switching Protection</b>	STP, RSTP, MSTP, ITU-T G.8031/G.8032
<b>Trunking</b>	IEEE 802.3ad LACP

<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, IP source guard
<b>IP Multicasting</b>	IGMP throttling, IGMP filtering, IGMP fast leave IGMP snooping v1/v2/v3, MVR, MLD snooping v1/v2
<b>Storm Control Management</b>	Unicast/Broadcast/Multicast storm suppression Web/Telnet CLI/SNMP/console interface, Web/CLI authentication, SSH v2, HTTPS, port mirroring system syslog, IPv6 management, NTP, SNTP
<b>SNMP agent</b>	SNMP v1/v2c/v3
<b>Software upgrade</b>	TFTP / HTTP / HTTPS
<b>Ethernet OAM</b>	IEEE 802.3ah / IEEE 802.1ag / ITU-T Y.1731
<b>LED display</b>	Power, System, Console, Link/Act, Speed
<b>Power input</b>	100V ~ 240VAC -30~-60VDC (-48VDC Power) -9 ~ -32VDC (-24VDC Power)
<b>Power Consumption</b>	< 60W
<b>Operating Temperature</b>	0 ~ 50°C
<b>Humidity</b>	5% ~ 90% (non-condensing)
<b>Dimensions</b>	270.3 x 437.5 x 43.5 mm (D x W x H)
<b>Certification</b>	FCC, CE, RoHS compliant

## Application



## Ordering Information

Model Name	Description
MSW-4424A	24x100/1000Base-X (SFP) + 4 x 10GBase-X SFP+ L2+ Gigabit Carrier Ethernet Switch

**Remark:** SFP Transceiver not included

### Optional Power

4424-AC	100V ~ 240V AC power module (60W)
4424-DC24	9V ~ 32V DC power module (60W)
4424-DC48	30V ~ 120V DC power module (60W)

### Optional Cable Tray

4424-CTY	Front Cable Tray
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### Optional FAN

4424-FAN	FAN module (3in1 FAN module, 10000RPM, software real-time status detection)
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Example: MSW – 4424A