

Layer 3 Managed Rack-mount Gigabit Optical Ethernet Switch 48*100/1000BASE-T Ethernet + 6*1000/10000Base FX SFP

← 48 →
1000M
Ethernet

← 6 →
1G/10G
SFP



Overview

VOSCOM VOS-MLR-48EG6XG Layer 3 Managed Ethernet switch provides 48* Ethernet ports and 6 SFP ports for Gigabit/10Gigabit fiber-optic module, with 480G switching capacity, 242Mpps packet forwarding speed, supporting STP/RSTP/MSTP/ERPS, simple and efficient redundancy protection mechanisms such as ring protection, linkage protection and link aggregation.

With working temperature of -10°C ~ 60°C, VOS-MLR-48EG6XG Layer 3 Managed Ethernet switches are widely used for occasions including enterprise, intelligent building, cafe, community access or gathering etc., and for industries like finance, education and government etc.

Features

- 48*100/1000M TX Ethernet ports and 6 SFP ports for Gigabit or 10 Gigabit fiber-optic module
- Support STP/RSTP/MSTP Protocol, ERPS protocol;
Also supports ring network protection.
- Wire speed forwarding capability of all ports make sure of non-blocking message forwarding.
- Support 802.1x authentication, VLAN, and broadcast storm suppression.
- Support IEEE/802.3x full duplex flow control and Backpressure half duplex flow control.
- Loop detection and Port+ IP+MAC binding.
- Port traffic monitoring and fault event alarming
- Support WEB visual interface, support SNMP management.
- Automatic MDI/MDI-X crossover for plug-and-play
- Overload protection and power reverse polarity protection.
- Automatic MDI/MDI-X crossover for plug-and-play
- Full-loaded operating temperature range -10 to 60°C.
- 19inch 1U Rack Mount installation.

Gigabit Ethernet Switches

Specification

• Switching Features

- **Processing Type:** Store & forward
- **Switching capacity:** 480Gbps
- **Packet forwarding speed:** 242Mpps
- **Port features:**
IEEE802.3x flow control(full-duplex)
Storm suppression basing on percentage of the port speed
Storm suppression basing on PPS
- **VLAN:**
Port-based VLAN
802.1Q tag VLAN (4K)
- **MAC Address:**
32K
Statistic configuration and dynamic learning MAC address
The viewing and clearing of MAC address
The MAC address aging time is configurable
Set the maximum number of port MAC address learning
MAC address filtering function
- **Port aggregation:**
Dynamic LACP or static aggregation
Manual aggregation
- **IPV4 Routing management:**
Static routing, RIP v1/v2, OSPF, OVPFV3
- **Multicast:** IGMP Snooping
- **Flow control:**
Back pressure for half-duplex,
and IEEE802.3X for full-duplex
- **QoS:**
Traffic classification based on each field of the
L2 / L3 / L4 protocol header.
CAR (Committed Access Rate) flow limitation
802.1P/DSCP priority remarking
- **Ring protocol:**
STP/RSTP/MSTP,
BPDU protection, Root protection, Loop protection
ERPS ring protection

• Switching Features

- **ACL:**
Support packet filtering function,
provide flow classification basing on source Mac address,
destination Mac address
- **Port Mirroring:**
Mirror images based on flow classification
Port mirroring
- **Security features:**
users' level management and password protection
802.1X authentication,
centralized Mac address authentication,
web authentication
Remote RADIUS
Port isolation
Port security function, IP +MAC +Port binding
CPU protection, IP source guard
Support Port Security function
- **Management &Maintenance:**
Support Modem/FTP/TFTP loading and updating
Support configuration through CLI, Telnet, Console port
Support SNMP v1/v2/v3,
Support WEB management
Support RMON (Remote Monitoring) alarm, events,
history records
Support NTP
Support Ping, Tracert
Support loopback-detection

Gigabit Ethernet Switches

• Interface

• Ethernet Port:

48 * 10/100/1000Base-T,
RJ-45 Connector

• Optical Port:

6 * 1000/10000Base-X SFP,
SFP LC Connector

• Console Port: RJ-45

• Protocol Supported:

• **Basic Protocols:** IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE 802.3x, IEEE802.1q, IEEE802.1p, IEEE802.1d, IEEE 802.1w, IEEE 802.1s, IEEE802.1x, IEEE802.1ab

• **Specific Protocols:** MSTP, IGMP Snooping, VLAN, Telnet, HTTP, RMON, SNMPv1/v2/v3, LLDP, STP, SSH, ACL, FTP, ARP, QoS

• Electrical & Mechanical

• Power:

AC100V~240V
Power consumption: <50W
3-pin Plug Connector
Over-current, Over-voltage protection

• Mechanical:

Dimension(L*W*H): 440*290*44.5mm
Weight: 3kg
Installation: 19inch 1U Rack Mount

• Environment:

Operating Temperature: -10°C ~ +60°C
Storage Temperature: -45°C ~ +85°C
Relative Humidity: 5~95%, non-condensing

• Warranty :

MTBF: > 100,000 hrs
Warranty: 3 years

Ordering Information

Model Number	Description
VOS-MLR-48EG6XG	Layer 3 Managed Ethernet Switch 48*100/1000BASE-T Ethernet + 6*1000/10000Base FX SFP
Note: • The power supply of Industrial Ethernet Switch series need to be purchased separately. • If the device with SFP, the SFP need to be purchased separately. • Please feel free to consult factory for any special requirement and customization.	

Optional Accessories (to be purchased separately)

Accessory Model	Description
SFP Modules	SFP Option. Please select your SFP on our SFP Modules page at the back of the catalogue or our website: www.voscom.com for details.
Power supply	Please refer to the power supply information at our website: www.voscom.com or consult our sales at sales@voscom.com for your power system design properly.

Gigabit Ethernet Switches

Dimensions

