



## ADVANCED MANAGEABLE L3 GIGABIT ETHERNET SWITCH

**OV-3512F**

8 Gigabit SFP Ports  
4 SFP/TX Combo Ports  
1 Console port  
Manageable L3

**Hi-performance, Network Manageable Fast Ethernet Switch**

OvisLink OV-3500 Series presents a standard L3 congestion-less switch series, which are capable of multi-layer switching and wire-speed route forwarding. Its high-performance ASIC and modular design enable you to employ a suitable number of interfaces and to configure various networks with great flexibility, all based on their individual requirements. It supports many access authentication models that can be flexibly configured, making it especially ideal for community access networks. Due to its high performance and low cost, OvisLink OV-3500 Series are considered a very competitive Gigabit Ethernet switching solution for community networking and workgroup networking in enterprise networks. .

**Application**

OvisLink OV-3500 Series is an enterprise-class switch providing Gigabit Ethernet configurations. Any OvisLink OV-3500 Series is an ideal aggregation level switch for enterprise LAN environments, enabling the deployment of new applications such as IP telephony, video surveillance, building management systems, etc. Customers can deploy network intelligent services such as quality of service (QoS), rate limiting, access control lists (ACLs), NAC, multicast, and high-performance IP routing while keeping the simplicity of traditional LAN switching.

The OvisLink OV-3500 Series provides:

- Intelligent features at the network edge, such as sophisticated access control lists (ACLs) and enhanced security.
- Full Gigabit Ethernet access. Option for full fiber connectivity.
- Combo Gigabit Ethernet ports flexibility, allowing use of either a copper or a fiber uplink. The combo port has one 10/100/1000 Ethernet port and one Small Form-Factor Pluggable (SFP)-based Gigabit Ethernet port, with one port active at a time (using expansion modules)
- Network control and bandwidth optimization using QoS, granular rate limiting, ACLs (L2-L4), and IGMP Snooping.
- Network security through a wide range of authentication methods, and Network Access Control based on users, ports, and MAC addresses.
- Extended manageability using CLI.
- Manageable through cluster technology allowing management using only one IP address.
- Dynamic unicast IP routing, including the most popular and standard protocols such as RIPv1/2, OSPF, BGP and a Cisco EIGRP compatible (BEIGRP)
- In addition to dynamic IP unicast routing, the OV-3500 Series is perfectly equipped for networks requiring multicast support providing Protocol Independent Multicast (PIM) and Internet Group Management Protocol (IGMP)
- IP services such as DHCP, Proxy ARP and NAT
- Reliability using Virtual Router Redundancy Protocol (VRRP)
- Automatic recognition for straight-through or cross-over cables.
- Lifetime warranty.
- Free software updates.

**Features:****- VLAN:**

- Port-based VLAN
- 802.1Q tagged VLAN
- GVRP (GARP VLAN Registration Protocol) to help management and deploy of VLANs
- Port isolation per VLAN
- Super VLAN
- Up to 4024 active VLAN

**- Spanning tree**

- 802.1D Spanning tree
- 802.1w Rapid Spanning tree
- Ether-ring protection

**- Scalability**

- LACP and static Port trunking. Up to 32 groups with up to 8 ports per group
- LLDP (Link Layer Discovery Protocol)
- Clustering. Manageability through a single IP address. Up to 256 switches per cluster
- RPS support

**- Control**

- Traffic control using back pressure at half-duplex and 802.3x at full-duplex
- Port rate limit. 8M step size
- Storm control. Stop sending at threshold to prevent unicast/multicast/broadcast storms
- IGMP Snooping for multicast traffic control

**- QoS**

- HOL (Head Of Line) blocking prevention
- 802.1p tagging (8 priorities)
- 4 dispatching queues per port
- FCFS (First Come First Serve) policy
- Strict priority scheduling algorithm
- WRR (Weighted Round Robin) algorithm
- DSCP (Differentiated Services Code Point) tagging

**- IP Routing**

- Static routing
- Express forwarding
- RIP v1/2
- OSPF v2
- BGP v4
- VRRP

**- Multicast**

- IGMP v1/2/3
- PIM-SM/DM

**- IP Services**

- DHCP (Server, client, relay)
- Proxy ARP
- Static and dynamic NAT/PAT

**- Security**

- 802.1x port-based authentication
- Remote authentication through RADIUS
- Port Security
- MAC, IP and VLAN ACL
- Port-MAC binding
- Web authentication
- DHCP Snooping
- IP Source Guard
- DoS Prevention

**- Management**

- SNMP v1/2
- RMON groups 1,2,3,9
- CLI (Telnet, console)
- SSH
- Web interface
- NTP (Network Time Protocol) to provide an accurate and consistent timestamp to all intranet switches.
- Port mirroring based on traffic flow (ingress/egress)
- Software and configuration upload/download via TFTP/FTP



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#### Hardware:

##### Performance

- Ports:
  - 8 Gigabit SFP Ports
  - 4 SFP/TX Combo Ports
  - 1 Console port
- Switch fabric: 48 Gbps
- L3 forwarding rate: 18 Mpps, all wire-speed and filtering
- Forward rate: All wire-speed forwarding and filtering
- Switching mode: Store and forward
- MAC address table size: 8 K
- Routing table size: 4 K
- Queuing buffer: 64 MB
- FLASH: 8 MB (up to 16 MB)
- SDRAM: 128 MB (up to 256 MB)

##### Physical

- Dimensions: (L - W - H) 442 - 316 - 44 mm
- Weight: 5,4 Kg
- Power consumption: 40 W
- Power input: AC 100-240 V, 47 ~ 63 Hz, 1A/230V
- LED indicators: Power, system, link, activity
- Temperature: Operating: 0 ~ 50°C, non-operating: -40 ~ 70°C
- Humidity: 0 ~ 90% (no condensing)
- Acoustic noise: 27dB
- Mean Time Between Failure (MTBF): 178189,1 hours

##### Standards

- Supported standards:
  - IEEE 802.1D Spanning Tree Protocol
  - IEEE 802.1p CoS Prioritization
  - IEEE 802.1Q VLAN
  - IEEE 802.1s
  - IEEE 802.1w
  - IEEE 802.1x
  - IEEE 802.3ad
  - IEEE 802.3AB
  - IEEE 802.3x full duplex on 10BASE-T, 100BASE-TX, and 1000BASE-T ports
  - IEEE 802.3 10BASE-T specification
  - IEEE 802.3u 100BASE-TX specification
  - IEEE 802.3ab 1000BASE-T specification
  - IEEE 802.3z 1000BASE-X specification
  - 100BASE-FX (SFP)
  - 100BASE-LX (SFP)
  - 1000BASE-SX (SFP)
  - 1000BASE-LX/LH (SFP)
  - 1000BASE-ZX (SFP)
  - RIP
  - OSPF
  - BGP
  - IGMP v1, IGMP v2, IGMP v3
  - NAT/PAT
  - DHCP
  - VRRP
  - RMON I and II standards
  - SNMPv1, SNMPv2

#### Ordering information

Product	Description
OV-3512F	All-Giga-port Ethernet switch. 8+4 ports (1 CONSOLE port, 8 1000M SFP slots, 4 SFP/1000 Base-TX combo ports)
OV-3512F-2AC	Network management Router Switch, 8 SFP ports + 4 ports 10/100/100M TX/Giga-bit SFP Combo, 2 AC power supply
OV-3524	All-Giga-port Ethernet switch. 20+4 ports (1 CONSOLE port, 20 10/100/1000M Base-T Ethernet ports, 4 SFP/1000 Base-TX combo ports)
OV-3524F	All-Giga-port Ethernet switch. 20+4 ports (1 CONSOLE port, 20 1000M SFP slots, 4 SFP/1000 Base-TX combo ports)
OV-3524F	All-Giga-port Ethernet switch. 20+4 ports (1 CONSOLE port, 20 1000M SFP slots, 4 SFP/1000 Base-TX combo ports)
OV-3548	All-Giga-port Ethernet switch. 44+4 ports (1 CONSOLE port, 44 10/100/1000M Base-T Ethernet ports, 4 SFP/1000 Base-TX combo ports)
MGM-1000TX	1-port 1000BaseT SFP module, RJ45
MGM-1000LC	1-port 1000BaseSX SFP module, multi-mode, LC interface, 500 m, wavelength: 850 nm
MGM-1010LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 10 km, wavelength: 1310 nm
MGM-1040LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 40 km, wavelength: 1310 nm
MGM-1080LC	1-port 1000BaseLX SFP module, single-mode, LC interface, 80 km, wavelength: 1550 nm

The functions and corresponding parameters might lightly change depending of the software upgrade, modules, etc. The right of final interpretation belongs to OvisLink. For more information, please contact us.