



ADVANCED MANAGEABLE L3 FAST ETHERNET SWITCH

OV-3228

24 x 10/100M RJ-45 ports
4 x 10/100/1000M Combo ports
1 Console port
Manageable L3

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

OvisLink is proud to present the new OV-3228 as the next-generation Fast Ethernet L3 switch. It has an advanced architecture, 36 Gbps switch fabric, and 9.6 Mpps L3 forwarding rate. Its hardware wire-speed L3 switching capability provides a powerful, multi-layered solution not only for enterprises, but also for Internet Service Providers (ISP's) and telecom carriers.

Application

OvisLink OV-3228 is an enterprise-class switch providing Fast Ethernet and Gigabit Ethernet configurations. The OvisLink OV-3228 is an ideal access layer switch for small enterprise LAN access or branch-office 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-3228 provides:

- Intelligent features at the network edge, such as sophisticated access control lists (ACLs) and enhanced security.
- 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-3228 is perfectly equipped for net works 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.
- VPN Routing and Forwarding (VRF)
- 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
- QinQ (VLAN Stacking)
- Up to 256 active VLAN

- Spanning tree

- 802.1D Spanning tree
- 802.1w Rapid Spanning tree
- 802.1s Multiple Spanning Tree
- Ether-ring protection

- Scalability

- LACP and static Port trunking. Up to 6 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
- 2 power sources (optional)

- Control

- Traffic control using back pressure at half-duplex and 802.3x at full-duplex
- Port rate limit. 64K 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
- BEIGRP (compatible with Cisco's BEIGRP)
- BGP v4
- IP-based routing policies
- VRF
- 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, VLAN and Time-based 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:
 - 24 x 10/100M RJ-45 MDI/MDI-X Self-adapting Ports
 - 4 x 10/100/1000M Combo ports
 - 1 Console Port
- Switch fabric: 36 Gbps
- L3 forwarding rate: 9,6 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 - 385 - 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-3228	Network manageable Ethernet switch with 20 10/100/1000M Fast Ethernet ports, 4 1000M TX/SFP combo ports, and 1 Console port. Standard AC power support.
OV-3228-DC	Network manageable Ethernet switch with 20 10/100/1000M Fast Ethernet ports, 4 1000M TX/SFP combo ports, and 1 Console port. DC power support.
OV-3228-2AC	Network manageable Ethernet switch with 20 10/100/1000M Fast Ethernet ports, 4 1000M TX/SFP combo ports, and 1 Console port. Dual AC power support.
OV-3228-2DC	Network manageable Ethernet switch with 20 10/100/1000M Fast Ethernet ports, 4 1000M TX/SFP combo ports, and 1 Console port. Dual DC power support.
OV-3228-AC-DC	Network manageable Ethernet switch with 20 10/100/1000M Fast Ethernet ports, 4 1000M TX/SFP combo ports, and 1 Console port. AC + DC power support.
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.