OS3110F

8-Port Gigabit SFP Managed L2 Switch with 2x10G SFP+ Ports

8x100/1000Base-X SFP, 2x10G SFP+, 1xConsole Type-C, 19" rack mounting



The ORIGO OS3110F is an all-fiber managed L2 switch with 8xSFP ports and 2x10G SFP+ uplinks.

The ORIGO OS3110F switch is recommended for building of the enterprise and ISP networks that need an optical access level solution with functions that provide basic routing, security, access control, fault-tolerance, quality of service and VLAN.

The ORIGO OS3110F switch comes with a 100-240V AC power supply and supports the 12V DC redundant power supply connection[1]. Such a scheme provides an uninterrupted operation of the switch in case of powering off the main power supply.

The switch supports static routing, advanced VLAN functionality, Port Security, 802.1X authentication and ACL. IGMP/MLD Snooping function allows to operate with multicasting applications effectively, and QoS is used to provide a priority transmission of multimedia traffic.

To increase performance and resiliency, the OS3110F supports Link Aggregation Control Protocol (LACP), the redundant connections by means of STP/RSTP/MSTP, Loopback Detection and ERPS, providing fast network recovery if one of the ring links fails.

Key Features

- 8x100/1000Base-X SFP ports
- 2x10GBase-X SFP+ ports
- Power redundancy
- IPv4/IPv6 static routing
- 802.1X, ACL, Port Security
- 802.1Q VLAN, Voice VLAN, Selective Q-in-Q
- ERPS, STP/RSTP/MSTP, Loopback Detection for enhanced network reliability
- Advanced QoS features for traffic prioritization
- IGMP/MLD Snooping to work with multicast traffic
- Management via Web, Console, Telnet, SSH, SNMP

[1] *A power supply is not included in the package contents.*

ORIGO

Specifications

Hardware

CPU and Memory	• CPU: RTL8382BM • RAM: 512 MB • Flash: 64 MB
Interfaces	• 8x100/1000Base-X SFP • 2x10GBase-X SFP+ • USB Type-C console port
Standards and Functions	• IEEE 802.3u 100Base-FX • IEEE 802.3z 1000Base-X • IEEE 802.3ae 10GBase-X • IEEE 802.3x (Flow Control)
LEDs	• PWR1 • PWR2 • Link/Act (port 1 – 10) • SYS
Buttons	• Reset • DC power button
Power	• AC: 100-240 V, 50/60 Hz • DC: 12 V (terminal block for connection of a power supply[1])
Ventilation	• Fanless
Mounting	• Desktop • 19" rackmount

Performance

Switching Capacity	• 56 Gbps
Transfer Mode	• Store-and-forward
MAC Address Table	• 16K entries
Packet Forwarding Rate	• 42 Mpps

Packet Buffer	• 1 MB
Jumbo Frame	• 12 KB

Software

L2 Features	• Flow Control • Link Aggregation - Static - 802.3ad • Load Balance - src-mac - dst-mac - src-ip - dst-ip • Loopback Detection • ERPS • Spanning Tree Protocol - 802.1D STP - 802.1w RSTP - 802.1s MSTP - Root Guard (Restriction) - BPDU Guard (Restriction) • LLDP • Port Mirroring - One-to-One - Many-to-One - Flow-based - CPU-based - Ingress/egress/both - RSPAN

VLAN	• 802.1Q, 4094 VLAN • Port-based VLAN • Protocol-based VLAN (802.1v) • Voice VLAN • GVRP • Double VLAN (Q-in-Q) • VLAN Translation • Multicast VLAN
L2 Multicast	• IGMP Snooping - IGMP v1/v2 - IGMP Snooping Fast Leave - IGMP Proxy • MLD Snooping
L3 Features	• IPv4/IPv6 static routing • IPv6 Neighbor Discovery (ND)
QoS	• 802.1p • CoS based on: - DSCP - VLAN ID • Queue Handling - Strict Priority (SP) - Weighted Round Robin (WRR)
Security	• SSH • Port Security • Port Isolation • IP-MAC-Port Binding (IMPB) • Storm Control • Dynamic ARP Inspection • ARP Spoofing Prevention

	• ARP Scanning Prevention • ARP Guard • DoS Attack Prevention • DHCP Snooping
AAA	• 802.1X Authentication: - Port-Based - MAC-Based • TACACS+ Authentication
Access Control Lists (ACL)	• ACL based on: - VLAN - MAC address - IPv4 address
Management	• Web-based GUI • Telnet • SSH • FTP • TFTP • System Log • SNMP v1/v2c/v3 • SNMP Traps • NTP Client • Firmware Upgrade • Ping/Traceroute • DHCP Server • DHCP Client • DHCP Relay • DHCP Option 82, 18, 37

ORIGO

Physical Parameters

Dimensions (L x W x H)	• 285 x 190 x 44 mm

Operating Conditions

Power	• 100-240 V AC, 50/60 Hz • 12 V DC
Surge Protection	• ±6 kV (common mode)
Electrostatic Discharge (ESD) Protection	• Contact discharge: ± 6 kV • Air discharge: ± 8 kV
MTBF	• 50 000 hours
Temperature	• Operating: -10 to 50 °C • Storage: -40 to 70 °C
Humidity	• Operating: 10% to 90% (non-condensing) • Storage: 5% to 90% (non-condensing)

Package Contents

Package Contents	• OS3110F Switch • Power Cord • Grounding Wire • Rack-Mount Kit • Quick Installation Guide

Order Info

OS3110F	Managed L2 Switch, 8x1000Base-X SFP, 2x10GBase-X SFP+