

FOS-3110 Management Gigabit Ethernet Switch



8 ports 100/1000Mbps SFP + 2 combo uplink ports
(10/100/1000Mbps RJ-45 and 100/1000Mbps SFP)
Managed Ethernet Switch

Features

- **Adequate Management Interface**
Support WEB, Telnet, CLI, SNMP and Out-band console interface
- **Commonly used Layer 2 Switch features**
Port Configuration, Tag VLAN, QoS, Spanning Tree, LACP and L2 multicast IGMP
- **Security and Advance features**
DHCP Snooping, Port mirror, Loop detection, IP Source Guard, Storm Control and MAC address limit
- **Management & Maintains features**
Text based CLI configuration, TFTP/FTP for firmware & Configure upgrade, Event and Syslog and SNMP power down trap.
- **IPv4/IPV6 Dual Stack**
Support IPv6 management, packet forwarding and MLD v1/v2 snooping.
- **Fan less and Half-Size Rack design**
For small cabinet and limit narrow space installation environment .

Description

Connection Technology System (CTS) FOS-3110 Enterprise switch is a Fiber Gigabit Ethernet 100/1000Base-X and 10/100/1000Base-T switch with robust metal case.

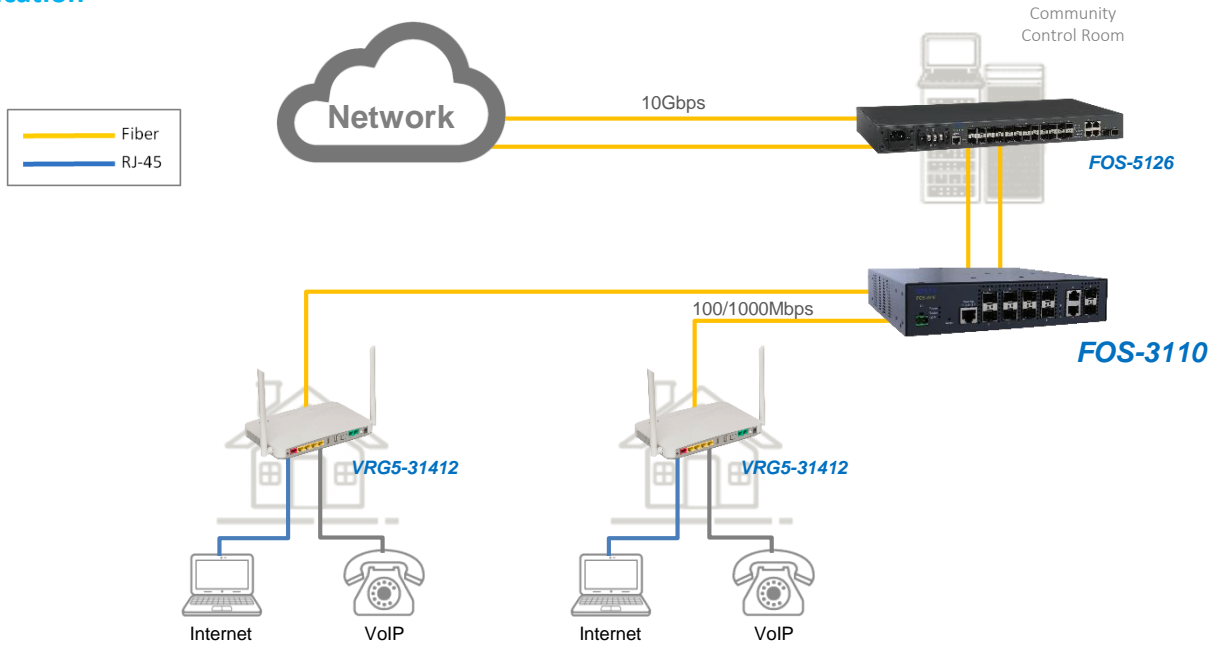
The FOS-3110 enterprise switch can be easily managed by Web GUI, telnet CLI, and SNMP. To fulfill the requirement of mass deployment, the device also supports the auto provisioning mechanism to allow the network managers to manage the device automatically and dynamically to save the OPEX. With CTS unique power down trap feature, FOS-3110 is able to send out a SNMP trap message when unexpected power outage occurs.

The FOS-3110 is also designed to facilitate the deployment of SME networks by supporting various VLAN features such as port-based VLAN, Tag VLAN and Q-in-Q. With these features, the service providers would be able to connect a SME's branches in different locations and form a kind of local area network. It also support security features such as DHCP snooping, IP source guard, loop detection and storm controls to create a stable network.

Target Applications

- Layer 2 Ethernet SMB requirement or fiber in the building distribution

Application



Specification

Interface

- Uplink Port (Type):
2 x 100/1000Mbps Combo (SFP + RJ45)
- LAN Port (Type):
8 x 100/1000Mbps SFP
- Console Port (Type):
1 x RS-232 Port (RJ-45)
- Terminal Block
1 x Digital Input (Dry contact)

Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X
- IEEE 802.3az EEE
- IEEE 802.3x Flow Control
- IEEE 802.3ad Link Aggregation
- IEEE 802.1ab LLDP
- IEEE 802.1p Priority
- IEEE 802.1q Tag VLAN
- IEEE 802.1d STP
- IEEE 802.1w RSTP
- IEEE 802.1x Port based Network Access Control

H/W Specification

- MAC Address table : 8K
- Non-Blocking Switching Fabric : 20Gbps
- Memory buffer: 524K Bytes
- Jumbo frame : 9K Bytes
- Store and Forward Switching Mechanism
- Auto-Cross Over for MDI/MDUX in TP Ports
- Auto-Negotiation in TP Ports
- Full/Half Duplex Mode Operation

LED

- Power , Status , COM , Link/Act

Forward / Filter Rate

- 10M : 14,880/14,880pps
- 100M: 148,800/148,800pps
- 1000M:1,488,000/1,488,000pps

Layer 2 Switch Features

VLAN

- IEEE 802.1q tag VLAN with P-bit Marking
- VLAN concurrent groups: 2K VLAN Groups
- Port Based VLAN
- Q-in-Q Double tag with Configurable EtherType

QoS

- QoS 802.1p CoS / DSCP with Weighted Round-Robin(WRR) and Strict-Priority Queuing (SPQ) Scheduling Algorithm.
- QoS Priority Queues : 8 Queues
- 802.1p P-bit & DSCP Remarking
- Port based rate limit (ingress/egress)

Network Redundancy

- STP IEEE 802.1d
- RSTP IEEE 802.1w
- LACP algorithm of source / destination IP, MAC , L4 Port
- Static Port Trunking
- Up to 5 Aggregation Groups, 6 ports per Group

Multicast

- IGMP Snooping v1/v2/v3
- IGMP Fast Leave
- MLD v1/v2 Snooping
- IP Multicast Filter with Segment & Profile
- Static Multicast Configuration

IPv6 Feature

- IPv6 over Ethernet (RFC 2464)
- IPv6 Addressing Architecture (RFC 4291)
- IPv6 Dual Stack (RFC4213)
- ICMPv6 (RFC4884)
- Path MTU Discovery for IPv6 (RFC 1981)
- Neighbor Discovery (RFC4861)

Access Control List

- ACL Based on Physical port, EtherType ,VID , TOS/DSCP , Protocol Type , L4 Port and IP.

Security

- 802.1x Port Base Access Control
- 802.1x RADIUS Authentication
- 802.1x MAC Authentication Bypass
- DHCP Option 82 Relay Agent
- DHCP Option 82 with configurable circuit & Remote ID
- DHCP Snooping
- IP Source Guard

Management

- SNMP/WEB/Telnet/SSH/CLI Interface
- Text Base CLI Configure file
- Port Configuration Speed/duplex/flow control/Description
- NTP with Daylight Saving Time
- Layer 2 Control Protocol filter
- Static MAC address Table
- MAC Limiters
- LLDP
- Storm Control (Unicast/Multicast/Broadcast)

Maintenance

Diagnostic

- Port Mirror
- ICMP Ping
- Event log
- Syslog
- SFP SFF-8472 DDMI monitor
- Power Down Trap

Upgrade/Restore

- HTTP/FTP/TFTP Firmware & configuration update
- DHCP Auto-provision via DHCP option 60/43 for firmware and configuration upgrade

Other

- Loop Detection

Monitoring

- CPU and Memory Statistics
- Switch Port Status , Traffic , packet Error , Packet Analysis Statics

Power Requirement

- Input AC:100V-240V 50/60Hz
- Power Consumption: 12W

Environmental Condition

- Operation : 0°C ~ 50°C
- Storage Temperature : -20°C ~ 60°C
- Humidity:5%~90%, Non-condensing

Dimension & Weight

- Size: 210 x 235 x 44 mm (W x D x H)
- Weight: 1.5Kg

EMC/Safety

- FCC Class A, CE

Order Information

FOS-3110

Model	Fiber Ports					TP Ports		Support Power Source
	Speed	Type	Connector	Distance	Ports	Speed	Ports	
FOS-3110-1A	100/1000 Mbps	SFP	-	-	10	10/100/1000 Mbps	2	Fixed 1 Internal AC