

SWH-2126GSFP Management Ethernet Switch



Features

- **MEF 9 compliant**
MEF 9 compliant product to dramatically reduce the time cost and risk of deployment
- **SKA 3.1 compliant**
SKA 3.1 compliant makes the switch to offer a secured and high quality solution that is easier to enter metro Ethernet market
- **Flexible form factor design**
Competitive switch features but flexible dimension either 10" or 19" size for territorial deployment and flexibility
- **Many functions to facilitate multimedia streaming**
Support IGMP snooping, IGMP fast leave, IGMP filtering & advanced MVR to intelligently transmit multicast traffic and deliver IPTV service
- **Support Q-in-Q VLAN tag**
Allows service providers to implement Metro Ethernet service while maintaining the layer-2 separation of different customers
- **Unique power down trap technology**
Built in CTS unique SNMP power down trap function to rapidly detect network fault due to power outage

Target Applications

- FTTX implementations, Metro Ethernet implementations

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

Description

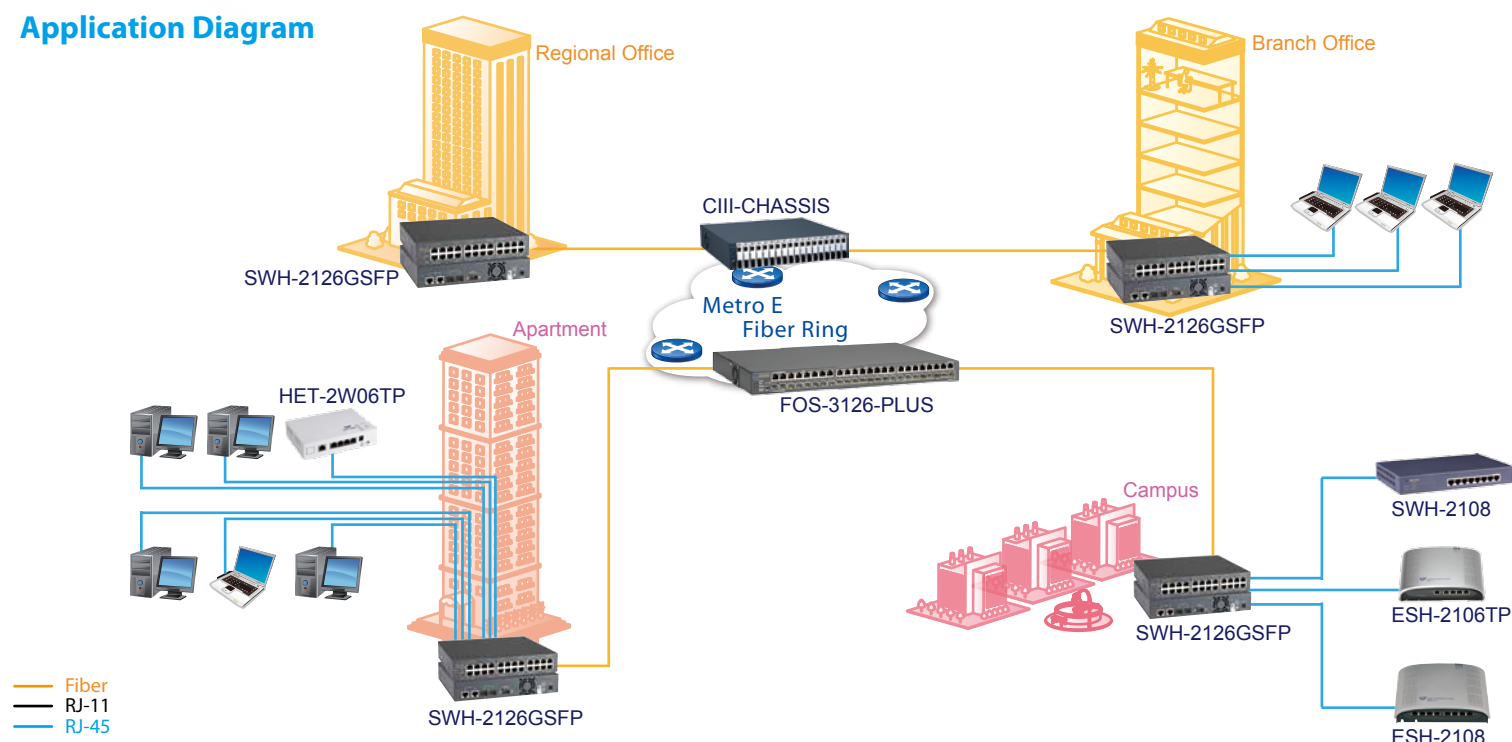
Connection Technology Systems (CTS) SWH-2126GSFP is a layer-2 access switch equipped with 24 ports 10/100Mbps RJ45 and 2 port combo uplink (10/100/1000Mbps RJ45 + 1000Mbps SFP). The 2 uplink SFP slots can accommodate wide range of gigabit SFP transceivers including single-mode, wdm or cwm transceivers. It is built for service provider, enterprise, and SMB who are planning to implement FTTX or Metro Ethernet networks, with further spanning into triple-play service.

Triple-play service is a popular choice for service providers nowadays, because they can generate higher revenue return per unit by combining data, VoIP and IPTV services in one box. SWH-2126GSFP is optimized for service provider to place at the network edge and connect with triple-play gateway. With advanced features including QoS classification, rate limit control, MVR, IGMP snooping, IGMP fast leave and IGMP filtering, SWH-2126GSFP helps service provider to implement a manageable network environment and deliver a successful triple-play service.

For deploying Metro Ethernet network, Q-in-Q allows customers to connect their offices together through a service provider's network without requiring private connections. As the result, customers may already have configured their own VLANs, but different customers will be totally separated by service provider's VLAN, providing extra flexibility and security for customers and service providers. SWH-2126GSFP with Q-in-Q configured may be installed in the basement of an office building serving multiple customers in the building. Each customer can also have setup their own VLANs.

In some cases, Metro Ethernet access switches may be deployed in small spaces such as in the apartment or in the basements of buildings, so SWH-2126GSFP is designed with a compact form factor (1RU x 9.52 in.) for flexible mounting option. Designed with carrier-grade in mind while keeping user-friendly for MIS staff, SWH-2126GSFP can be easily managed by web interface, console CLI, telnet, SNMP, private MIB, and DHCP auto-provision. With CTS unique Power Down Trap feature, SWH-2126GSFP is able to send out a SNMP trap message when encountering power outage.

Application Diagram



Specification

Interface

10/100Base-TX RJ-45 Port: x 24
 Combo ports x 2
 DB-9 (DTE) console port x 1

Standards

IEEE 802.3 10Base-T
 IEEE 802.3u 100Base-TX/FX
 IEEE 802.3ab 1000Base-T
 IEEE 802.3z 1000Base-X
 IEEE 802.1w RSTP
 IEEE 802.1p Priority
 IEEE 802.1q Tag VLAN
 IEEE 802.1X Port Based Network
 Access Control

LED

Power, Port 25,26 F/O, Console/Status,
 Link/Act, Speed

Software Function

Store and Forward Switching Mechanism
 Auto-Cross over for MDI/MDIX in TP port
 Auto-Negotiation in TP port
 Comply with
 - IEEE 802.1p Priority
 - IEEE 802.1q Tag VLAN / Port based VLAN
 - IEEE 802.1w Rapid Spanning Tree Protocol
 - IEEE 802.1x Port Based Network Access Control
 Support
 - SFF-8472 DMI(diagnostic monitor interface)

- SNMP, CLI, Telnet, Web management
- IEEE 802.3ad Link Aggregation
- Jumbo frame on all ports up to 9216 bytes size
- Support QoS classification based on IEEE 802.1p, VID, ToS/DSCP/CoS, Ethertype, TCP/UDP port No.IPv4 DSCP Remarking
- Provider bridging with multiple VLAN tags (Q-in-Q)
- Protocol Base VLAN
- Rate Limit Control
- Static Multicasting
- IGMP Snooping v1, v2
- IGMP fast leave
- IGMP filtering via Filtering Profile
- Multicast channel limitation per port
- Multicast VLAN Registration (MVR)
- DHCP client and provision server
- DHCP Snooping
- RFC3046 DHCP relay agent with option.82
- Access Control List(ACL)
- Port Isolation
- IPv6 & UPnP Filtering
- RADIUS Authentication
- SNMP v1, v2c network management
- private, RFC-1213, RMON MIBs
- Port Mirror
- FTP, TFTP server and client firmware upgrade
- SNTP Time Server
- Support Power Down Trap Management

Product Spec

Mac address table: 16K

Memory buffer: Total 448K bytes
 VLANs: Support up to 128 VLAN Groups
 Priority Queues: 8 Queues

Forward / Filter Rate

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

Power

External Power adapter
 - Input AC120V~240V
 - Output DC12V / 2.1A
 Power Consumption
 - AC Side: 14W Max.

Typical Operation & Storage Temperature

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

Dimension & Weight

Size: 240 x 200 x 44 mm (WxDxH)
 Shipping Weight: 2.48KG

Emission/Safety

FCC Class A, CE
 * For further reports, please contact us for update.

Order Information

SWH-2126G Series

MODEL	FIBER PORT					TP PORT	
	Speed	Type	Connector	Distance	Ports	Speed	Ports
SWH-2126GSFP	1000	SFP	-	-	2	10/100 1000	24 2
SWH-2126GSFP-RMK	1000	SFP	-	-	2	10/100 1000	24 2

SFP-31 Series

MODEL	FIBER PORT				
	Speed	Type	Connector	Distance	Wavelength
SFP-31FC	1000Mbps	MM	LC	550M	850nm
SFP-31FC(SM-10/20/40/50/80/120)	1000Mbps	SM	LC	10/20/40/50/80/120KM	1310nm/1310nm/1310nm/1550nm/1550nm/1550nm
SFP-31W2A(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1310nm/1310nm/1310nm/1490nm RX:1550nm/1550nm/1550nm/1570nm
SFP-31W2B(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1550nm/1550nm/1550nm/1570nm RX:1310nm/1310nm/1310nm/1490nm
SFP-31FC-C09	1000Mbps	CWDM	LC	80KM	1430nm
SFP-31FC-C10	1000Mbps	CWDM	LC	80KM	1450nm
SFP-31FC-C11	1000Mbps	CWDM	LC	80KM	1470nm
SFP-31FC-C12	1000Mbps	CWDM	LC	80KM	1490nm
SFP-31FC-C13	1000Mbps	CWDM	LC	80KM	1510nm
SFP-31FC-C14	1000Mbps	CWDM	LC	80KM	1530nm
SFP-31FC-C15	1000Mbps	CWDM	LC	80KM	1550nm
SFP-31FC-C16	1000Mbps	CWDM	LC	80KM	1570nm
SFP-31FC-C17	1000Mbps	CWDM	LC	80KM	1590nm
SFP-31FC-C18	1000Mbps	CWDM	LC	80KM	1610nm