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RAYCORE

Q3-S288 V3.2E

Specification of L2 Manageable
Gigabit Ethernet Fiber Switch 7 ports
LAN with 1 port fiber

Part Number: ASWS-gT7F-xxxxx-xx



(Without Fiber Tray)



(With Fiber Tray)

The ASWS-9T7F-xxxxx-xx is a very compact manageable Gigabit Ethernet layer 2+ Switch with one Gigabit fiber port and seven Gigabit Ethernet LAN ports. This Switch with its patented functions is unique due to its ability of selecting either 100 Mbps or 1 Gbps on the fiber port, using the 1x9 module or SFP.

A powerful 416 MHz CPU ensures the unit is capable of handling today's demanding management needs.

The unit supports remote management by several different means.

Specifications

Interface

- LAN
 - RJ-45 Port: 10/100/1000 Base-T 6 Port
- Telemetry services or Copper LAN
 - RJ-45 Port: 10/100/1000 Base-T 1 Port
- WAN (Doesn't support copper type SFP)
 - Fiber Port: 100/1000 Base-X SFP, 1x9 Dual or WDM SC connector 1 Port
 - Fiber Length: Dual-Type: 20km/40km (SMF); WDM-Type: 20km/40km (SMF)

Standard compliance

- Support IEEE 802.3 10BASE-T
- Support IEEE 802.3u 100BASE-TX/FX
- Support IEEE 802.3ab 1000BASE-T
- Support IEEE 802.3z 1000BASE-X
- Support IEEE 802.3x Flow Control
- Support IEEE 802.1p QoS
- Support IEEE 802.1q VLAN Tagging
- Support IEEE 802.1d MAC Bridges/STP



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- Support IEEE 802.1w RSTP
- Support IEEE 802.1ad Provider Bridges
- Support IEEE 802.3az Energy Efficient Ethernet (EEE) function
- Support IEEE 802.3ah Link OAM

Traffic

- Support Port Setting
- Support Bandwidth Control/Traffic Shaping:
 - Configurable per port (100kbps increments)
 - Configurable per que (100kbps increments)
- Support Storm Control: Broadcast/Multicast Storm Suppression
- Support IGMP Snooping: IGMP snooping enable and disable mode

Link OAM Management

- OAM management (Active and Passive Mode)
- OAM Discovery
- Link Monitor support
- MIB Retrieval support (Customization option)
- OAM Loopback support
- Dying Gasp support

Security & Authentication

- Support IEEE 802.1p QoS:
 - Support Eight QoS queues per port with strict or deficit-weighted round robin scheduling
 - Support QoS classification based on IEEE 802.1p, EtherType, VID, MAC/IP addresses, IPv4/IPv6 DSCP, and UDP/TCP ports and ranges
 - Support data rate shaper and policer per-queue, per-port for both ingress and egress directions in steps of 100kbps
 - Support full-duplex flow control (IEEE 802.3x) and half-duplex backpressure, symmetric and asymmetric
 - Support Multicast and broadcast storm control with flooding control.
 - Support QoS Control List (QCL Mode)



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- Support IEEE802.1q VLAN:
 - Port-base VLAN
 - MAC based VLAN
 - Protocol based VLAN
 - MVR
 - IEEE-802.1ad Provider Bridge (Native or Translated VLAN)
 - IEEE802.1q tag-base VLAN, up to 256 active VLANs
 - Management VLAN
 - Support Q in Q
 - Support VLAN Translation
- Support DDMI function for SFP:
 - SFP P/N
 - SFP Series number
 - SFP Type
 - Measured TX output power
 - Measured RX received optical power
 - Measured TX bias
 - Supply voltage
 - Transceiver temperature
- Support Port Mirroring
 - Per port ingress and egress mirroring
- Support Port Isolation
- Support EEE
 - ActiPHYTM
 - PerfectReachTM
 - IEEE 802.3az resulting in one of the lowest power 7-port Gigabit Ethernet switch
- IEEE-802.1D Bridge
 - Auto MAC address learning/aging
 - MAC Addresses – Static
- IEEE 802.10AB-2005 Link Layer Discovery – LLDP
- Support IPTV Probe
- Support Port Ingress Shaping
- Support L2TP



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Management

- Management via Web/HTTP
- Telnet CLI
- Support SNMP v1 & v2c and v3 agent, RFC 1213 MIB (MIB-II) and Private MIB
 - RFC 2674 VLAN MIB
 - RFC 2819 RMON (Group 1, 2, 3 & 9)
 - RFC 1213 MIB II
 - RFC 4188 Bridge MIB
 - RFC 3635 Ethernet-like MIB
 - RFC 2863 Interface Group MIB using SMI v2
 - RFC 3636 802.30 MAU MIB
 - RFC 4133 Entity MIB version 3
 - RFC 3411 SNMP Management Frameworks
 - RFC 3414 User-based Security Model for SNMPv3
 - RFC 3415 View-based access Control Model for SNMP
- Support DHCP Client for IPv4
- Support DHCP Snooping
- Support DHCP Option 82 relay
- Auto Provisioning for firmware and configuration upgrade
- Firmware and configuration upgrade via Web/HTTP
- Dual Bank Image
- Support Auto Laser Shutdown
 - When there is no input to Fiber Rx, the laser will shut down for 3 sec and then restart for 1 sec. It will repeat the action until getting the inputs.
- Support watchdog timer
 - Watchdog timer function ensuring you can always reach management of the unit
- Support TR069
 - Firmware upgrade
 - Configuration upgrade
- Support TR098
 - Port status
 - Port setting
- Support SNMP trap dying gasp

RAYCORE

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Hardware

- LED Indicators:
 - Power: Blue LED
 - FX LINK/ACT: Blinks LED
 - Speed: Orange/Green LED (1000M/100M)
 - LAN 1-6 LINK/ACT: Blinks LED
 - LAN 1-6 Speed: Orange/Green/Red LED (1000M/100M/10M)
 - TM/LAN 7 LINK/ACT: Blinks LED
 - TM/LAN 7 Speed: Orange/Green/Red LED (1000M/100M/10M)
- Support Auto-negotiation for TP Port (10/100/1000 Base and Full/Half mode)
- Support Auto MDI/MDIX auto-crossover for TP ports
- Operate in store and forward mode
- 4 megabits of integrated shared packet memory
- Support Flow Control
- Support 8K MAC Address Table
- Support Jumbo Frame (9k)

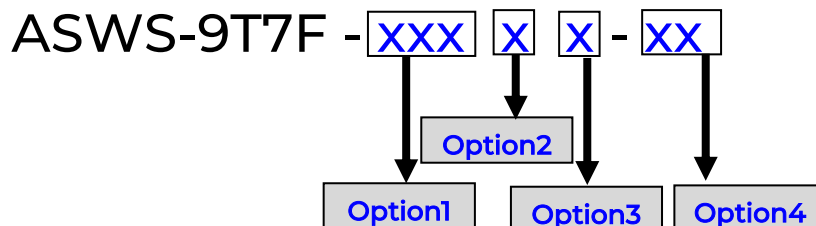
Environmental & Physical

- Installation: Desk Top/Wall Mounting/Magnet Wall Mounting
- Dimension: 93.5mm x 163mm x 32mm (LxWxH) (without fiber tray)
142mm x 163mm x 38.5mm (LxWxH) (with fiber tray)
- Operating Temperature: 0~40°C
- Storage Temperature: 0~70°C
- Humidity: 20~80% non-condensing
- Power Consumption: <8W
- Power Input: DC Jack, 12VDC/1A
- MTBF: 100,000 h (25°C)
- Compliance: RoHS
- Compliance: CE/FCC and LVD

Ordering Information

Part Number	Description
ASWS-9T7F-xxxxx- xx	L2 Manageable Gigabit Ethernet Fiber Switch 7 ports LAN with 1 port fiber





Option1:

Option Code	Option Descriptions
009	SFP Cage only
131	1x9 Dual SC, 1310nm, SMF 20km
13A	1x9 Dual SC, 1310nm, SMF 40km
351	1x9 Bidi SC, T1310nm/R1550nm, SMF 20km
35A	1x9 Bidi SC, T1310nm/R1550nm, SMF 40km

Option2:

Option Code	Option Descriptions
0	Without Fiber Tray
1	With Fiber Tray
2	Without Fiber Tray, with Magnet Bracket
3	Without Fiber Tray, with Wall Mount Bracket

Option3:

Option Code	Option Descriptions
0	Without Power adaptor
1	100-240V/50-60Hz, 12V/1A, US (Type A), Black
2	100-240V/50-60Hz, 12V/1A, EU (Type C), White

Option4:

Option Code	Option Descriptions
00	Standard firmware
06	Standard firmware+TR-069
xx	Customized firmware

