



ETHERNET
SWITCHES

Signamax 500-7620DS4GC

20 ports 100/1000Base-SFP with 4 Combo ports (10/100/1000M copper and 100/1000M SFP) Managed Ethernet Switch



Features

- **SFF-8472 Diagnostic Monitor Interface**
Allow manager to View SFP information and status including speed, distance, Vendor ID, Vendor S/N, temperature, voltage, TX Bias, etc.
- **CLI & Text-based Conguration**
Support popular CLI framework and structure. Configuration setting information is in accessible clear-text format
- **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
- **IEEE 802.3ad Link Aggregation**
Cost-efficient way to increase bandwidth and reliability by grouping multiple links into one
- **Unique power down trap technology**
Built in CTS unique SNMP power down trap function to rapidly detect network fault due to power outage

Description:

Signamax 500-7620DS4GC is a layer-2+ gigabit access switch equipped with 20 ports 100/1000Mbps SFP and 4 ports combo uplink (10/100/1000Mbps RJ45 + 100/1000Mbps SFP). All SFP slots can accommodate wide range of SFP transceivers including single-mode, wdm or cwm transceivers. 500-7620DS4GC delivers wire-speed throughput for data, voice and IPTV services, using non-locking 48Gbps switching fabric. It is built for service providers, 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. 500-7620DS4GC is optimized for service providers 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, 500-7620DS4GC helps service providers 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. 500-7620DS4GC 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.

Designed with carrier-grade in mind while keeping user-friendly for MIS staff, 500-7620DS4GC can be easily managed by web interface, console CLI, telnet, SNMP, private MIB, and DHCP auto-provision. With Signamax unique power down trap feature, 500-7620DS4GC is able to send out a SNMP trap message when encountering power outage.

Specification

Interface

100/1000Mbps SFP x 20

Combo ports x 4

RJ-45 console port x 1

*Combo port (10/100/1000Mbps RJ-45 and 100/1000Mbps SFP)

Standards

IEEE 802.3 10Base-T

IEEE 802.3u 100Base-TX/FX

IEEE 802.3ab 1000Base-T

IEEE 802.3z 1000Base-X

IEEE 802.3ad Link Aggregation

IEEE 802.1w Rapid Spanning Tree

IEEE 802.1p Priority

IEEE 802.1q Tag VLAN

IEEE 802.1X Port Based Network Access Control

LED

Power A/B, COM , Status, Speed/Link/Act

Software Feature

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

- IEEE 802.1w Rapid Reconfiguration of Spanning Tree

- IEEE 802.1x Port Based Network Access Control Support:

- SNMP, Web, Telnet and Console management

- IEEE 802.1ag CFM

- IEEE 802.3ad Link Aggregation Control Protocol (LACP)

- Jumbo frame on all ports up to 9600 bytes size

- QoS Classification based on IEEE 802.1p, VID, TOS/DSCP, EtherType and L4 Port

- DHCP Snooping

- Provider bridging with multiple VLAN tags (Q-in-Q)

- Rate Limit Control

- SNTP Time Server

- Static Multicasting

- IGMP Snooping v1, v2

- IGMP fast leave

- IGMP Filtering via Filtering Profile

- Multicast channel limitation per port

- Multicast VLAN Register (MVR)

- DHCP client and provision server

- RFC3046 DHCP relay agent with option 82

- FTP, TFTP server and client firmware upgrade

- Radius Authentication

- SNMP v1, v2c and network management

- Private, RFC-1213, RMON MIBs

- Port Mirror

- Power Down Trap management

Product Spec

Mac address table: 8192

Memory buffer: Total 1391K bytes

VLANs: Support up to 1024 VLAN Groups

Priority Queues: 4 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

Power Consumption

- AC Side: 41,2W

Typical Operation & Storage Temperature

Operation: 0° ~ 50°C

Storage Temperature: -20° ~ 60°C

Humidity: 5% ~ 90% non-condensing

Dimension & Weight

Size: 440 x 200 x 44 mm (WxDxH)

Shipping Weight: 5KG

Emission/Safety

FCC Class A, CE