



ETHERNET  
SWITCHES

## Signamax 500-7622GE2GC

22 ports 10/100/1000Base-TX with 2 Combo ports (10/100/1000M copper and 100/1000M SFP)  
Managed 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
- § **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 500-7622GE2GC is a layer-2+ gigabit access switch equipped with 22 ports 10/100/1000Mbps RJ45 and 2 ports combo uplink (10/100/1000Mbps RJ45 + 100/1000Mbps SFP). The 2 uplink SFP slots can accommodate wide range of SFP transceivers including single-mode, wdm or cwm transceivers. 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. 500-7622GE2GC 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, 500-7622GE2GC 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. 500-7622GE2GC 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 500-7622GE2GC 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, 500-7622GE2GC can be easily managed by web interface, console CLI, telnet, SNMP, private MIB, and DHCP auto-provision. With Signamax unique power down trap feature, 500-7622GE2GC is able to send out a SNMP trap message when encountering power outage.



## Specification

### Interface

10/100/1000Base-T RJ-45 Port: x 22  
 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 802.3ad Link Aggregation Control Protocol (LACP)  
 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, Port 23, 24 F/O, Console/Status, Link/Act, Speed

### 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 128 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  
 Output DC12V  
 Power Consumption  
 § AC Side: 35W

### 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: 2.5KG

### Emission/Safety

FCC Class A, CE