

# 24-Port 10/100Mbps + 2G combo TP/SFP Ethernet Security Switch



PLANET WGSW-2620, the security switch, is a 24-Port 10/100Mbps with 2 GbE copper ports and two-shared SFP/copper GbE interface Ethernet Switch. It boasts a high performance switch architecture that is capable of providing non-blocking switch fabric and wire-speed throughput as high as 8.8Gbps. Its two built-in GbE uplink ports also offer incredible extensibility, flexibility and connectivity to the Core switch or Servers.

PLANET WGSW-2620 is loaded with powerful traffic management and QoS features to enhance services offered by telcos. It provides 4 priority queues per port for different types of traffics, allowing administrators to set policies for classified filtering and rule-based rate limitation. The WGSW-2620 prioritizes applications with WFQ (Weighted Fair Queuing) scheduling algorithm to allocate more bandwidth to key traffics such as voice transmission, empowering the enterprise to take full advantages of the limited network resources and guarantee the best performance.

The security switch offers comprehensive Access Control List (ACL) for enforcing security to the edge. Its protection mechanisms comprised of port-based 802.1x user and device authentication. The administrators can now construct highly secured corporate networks with time and effort considerably less than before.

With its built-in web-based management, the PLANET WGSW-2620 offers an easy-to-use, platform-independent management and configuration facility. WGSW-2620 supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software. For text-based management, the WGSW-2620 can also be accessed via Telnet and the console port. For secured remote management, the WGSW-2620 support SSL and SSH connection which encrypt the packet content at each session.

## KEY FEATURE

- 24 10/100 auto-negotiation ports and 2 Gigabit TP/SFP Combo ports.
- Supports half duplex and full duplex modes and auto-negotiation for all 10BaseT/100BaseTX/1000BaseT ports.
- MDI/MDI-X auto-sense on all ports and IEEE 802.3ab Auto MDI/MDI-X on all 100/1000 twisted-pair ports.
- Supports up to four Class of Server (CoS) queues per egress port.
- Implements two mechanisms, cell-based HOL blocking and packet-based HOL blocking, to prevent Head of Line Blocking on a per-Port basis.
- Supports a packet aging mechanism, which allows the switch to discard a packet residing in the packet memory. The packet age limit is programmable and has maximum time duration of approximately 515 seconds.
- Supports mechanisms to handle backpressure allowing for flexible flow control on packet transactions. The limit at which backpressure is detected is based on the amount of memory utilized by the packets on an input port. This limit is programmable on a per-Port basis.
- Provides programmable threshold limits to prevent packets from flooding into other parts of the network. Three types of packet can be monitored and separate counters are maintained for each type of packet.
- Full compliant with the IEEE 802.1D spanning tree support specifications.
- Supports the IEEE 802.1s specification for multiple spanning trees on a single port (spanning tree per VLAN).
- Supports the IEEE 802.1p specification for traffic class expediting and dynamic multicast filtering support (Class of Service, or CoS).
- Supports the IEEE 802.1Q Specification for Virtual Bridged Local Area Network.
- Provides a mechanism by which up to eight ports of the same speed can be bundled together to form a port bundle or a trunk group. Up to six trunk groups can be established.
- Supports inclusive and exclusive filtering to enable a switch application to filter and classify packets based on certain protocol fields in the packet.
- Supports mirroring to monitor the incoming or outgoing traffic on a particular port.
- WEB-based, Telnet, console CLI (Command line) management, or access through SNMP set and get requests
- Up to 250 units can be stacked by Ethernet connection and managed by single IP
- Built-in Trivial File Transfer Protocol (TFTP) client
- Traffic-policing policies on the switch port
- IEEE 802.1p Quality of Service
- IEEE 802.1x Port-Based Authentication
- SSL / SSH, secured layer management access through http, and telnet
- ACL (Access Control List) for secured packet-based access

**SPECIFICATION**

Product **24-Port 10/100Mbps + 2G combo TP/SFP Ethernet Security Switch**

Model	WGSW-2620
Network Connector	24-Port RJ-45 for 10/100TX
Gigabit Connector	2-Port RJ-45 / SFP shared RJ-45: 10/100/1000Base-T SFP: Gigabit SX/LX module
Switch architecture	Store and forward switch architecture. Back-plan up to 8.8Gbps
MAC address	8K MAC address table with Auto learning function
Memory	1Mbits for packet buffer
LED	Power, Link/Act, 100 Mbps, FDX/COL Module: Link/Act, 1000 Mbps, FDX/COL
Management Interface	Console, Telnet, SSH, Web, SSL, SNMP
Operating Temperature	0~40 Degree C,
Storage Temperature	-40~70 Degree C,
Operating Humidity	20% to 85%, relative humidity, non-condensing
Storage Humidity	20% to 90%, relative humidity, non-condensing
Dimension	430mm(W) x 350mm(D) x 44.5mm(H)
Weight	5.0 kg
EMI	FCC Class A, CE
Management Feature	RFC 1157 SNMP v1/v2 RFC 1213 MIB II RFC 1493 Bridge MIB RFC 1643 Ethernet MIB RFC 1757 RMON, 4 groups; Group 1, 2, 3, 9.
Standard Compliance	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3z Gigabit SX/LX IEEE 802.3ab Gigabit 1000T IEEE 802.3x Flow Control and Back pressure IEEE 802.3ad Port trunk with LACP IEEE 802.1d Spanning tree protocol IEEE 802.1w Rapid spanning tree protocol IEEE 802.1p Class of service IEEE 802.1Q VLAN Tagging

**APPLICATIONS**
**Department Switch**

With its 8.8 Gigabits per second, non-blocking switch fabric, the WGSW-2620 can easily provide a local, high bandwidth, Fast Ethernet network for your departmental backbone. The 2G TP/SFP interfaces provide the uplink to the backbone network through either Fast Ethernet fiber-optic or Gigabit Ethernet SX/LX modules.

**MTU Switch / Telco Residential Switch**

In an MTU/MDU application, the advanced functionality of the WGSW-2620 eliminates traditional problems associated with Ethernet. Using the built-in VLAN functionality can segregate users. This coupled with the flexible TP/Fiber module options makes the WGSW-2620 one of the best and most cost-effective switch solutions for multi-tenant service providers. The ACL support make the rate limiting of bandwidth of each access port, while SSL/SSH make the remote switch an secured equipments for management, free of attacks from hackers.

**ORDERING INFORMATION**

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