

24-Port + 1 Mini GBIC Managed Gigabit Ethernet Switch



The WGSW-24010 is a powerful, high-performance 24G + 1 Mini-GBIC 10/100/1000Mbps Fast Ethernet and Gigabit managed switch with twenty-four 10/100/1000Mbps ports and 1-SFP Mini-GBIC interfaces. The SFP Mini-GBIC interfaces for fiber extension is ideal for backbone connection to other workgroup products.

All RJ-45 copper interfaces support 10/100/1000Mbps Auto-Negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. Also, all the ports support Auto-MDI/MDI-X that can detect the type of connection to any Ethernet device without requiring special straight or crossover cables.

The powerful management capabilities of the device can be managed using the console, telnet or the web. SNMP MIB-II, Entity MIB and RMON are supported to provide maximum management functionality, providing a useful platform for system managers to monitor and administer the system efficiently. A complete set of diagnostic LED's are provided to simplify troubleshooting and provide a visible operating status. The IEEE 802.1Q VLAN tagging feature makes logically separating nodes easier with up to 256 VLAN groups allowed. Port trunking is also supported with up to 8 trunk groups on single switch. To simplify network troubleshooting when using sniffer software, the WGSW-24010 also supports port mirroring to duplicate up to 2 ports' transmitting and receiving packets to a specified sniffer port.

KEY FEATURE

- Complies with IEEE 802.3, 10Base-T, IEEE 802.3u, 100Base-TX and IEEE 802.3ab, 1000Base-T and IEEE 802.z 1000Base-SX/LX Ethernet standard
- 24 10/100/1000Mbps Ethernet ports, Auto MDI/MDI-X, Virtual Cable Test Support
- 1 Mini-GBIC for 1000Base-SX/LX fiber-optic interface with various connection media and distances
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Hardware based 10/100Mbps, half/full duplex and 1000Mbps full duplex mode, flow control and auto-negotiation
- IEEE 802.3x flow control for full duplex operation and backpressure for half duplex operation
- Integrated address look-up engine, support 4K absolute MAC addresses, automatic address learning and address aging
- 400KB on chip frame buffer
- 9K Jumbo packet size support
- IEEE 802.1q VLAN, up to 256 VLANs, IEEE 802.1p four priority with Weight Round Robins
- LACP Link aggregation, port mirroring support
- IGMP Snooping, Storm control
- IEEE 802.1d, IEEE 802.1w, classic Spanning Tree Algorithm or Rapid Spanning Tree support
- Web, Telnet / Console Command Line management, SNMP v1, v2C
- RMON Group 1, 2, 3, 9
- Virtual Cable Test (VCT) technology provides the mechanism to detect and report potential cabling issues, such as cable opens, cable shorts, etc. on Copper Links.

SPECIFICATION

Product **24-Port + 1 Mini GBIC Managed Gigabit Ethernet Switch**

Model **WGSW-24010**

Hardware Specification

Network Ports 24 10/100/100 Base-T STP Ports
1 Mini-GBIC for 1000Base-SX / LX fiber-optic interface (shared with port 12)

Switch Processing Scheme Store-and-Forward

Switch fabric 48Gbps

Throughput (packet per second) 35.7Mbps

Address Table 4K entries

Share data Buffer 512KB

Flow Control Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex

Dimensions 440 x 200 x 44 mm (1U height)

Weight 2.64 kg

Power Requirement 100~240 VAC, 50-60 Hz

Temperature Operating: 0~50 Degree C, Storage -20~70 Degree

Humidity Operating: 10% to 90%, Storage: 5% to 95% (Non-condensing)

Management

Management Interface Web, Console, Telnet and SNMP

Features RFC 1157 SNMP v1/v2
RFC 1213 MIB II
RFC 1493 Bridge MIB
RFC 1643 Ethernet MIB
RFC 1757 RMON 4 groups: stats, history, Alarms & Events

Standards Conformance

Regulation Compliance FCC Part 15 Class A, CE

Standards Compliance IEEE 802.3 Ethernet
IEEE 802.3u Fast Ethernet
IEEE 802.3z / 802.3ab Gigabit Ethernet
IEEE 802.3x Flow Control
IEEE 802.1p QoS priority
IEEE 802.1Q VLAN tag
IEEE 802.1D Spanning Tree Protocol
IEEE802.1w Rapid Spanning Tree
RFC 768 UDP
RFC 783 TFTP
RFC 791 IP
RFC 792 ICMP
RFC 826 ARP
RFC 854 Telnet
RFC 2068 HTTP
RFC 2236 IGMPv2

APPLICATIONS
Backbone Switch

With up to 48 Gigabits per second of non-blocking switch fabric, the WGSW-24010 can easily provide the high bandwidth required both now and in the future.

Server Farm Switch

Providing up to 24 Gigabit Ethernet ports, it is ideal for use as a server farm switch connecting servers. With its port trunking function, a 2Gb fat pipe is provided for connecting to the backbone if required.

ORDERING INFORMATION

WGSW-24010 24-Port + 1 Mini GBIC Managed Gigabit Ethernet Switch