

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
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