

WGSW-2402A

24-port + 2 Gigabit-slots Managed Stackable Switch



The Planet WGSW-2402A is a ultra-fast high-performance switch with a non-blocking switch fabric of 12.8Gbps respectively. The WGSW-2402A is designed to be a workgroup switch with 24 10/100Mbps RJ-45 ports and 2 slots for media expansion. The expansion slots support optional Planet 1000Base-T, 1000Base-SX and 100Base-FX modules that provide great flexibility on both enterprise and FTTB applications.

The WGSW-2402A can be stacked up to 8 units through an Ethernet interface and managed by single IP. Up to 8 WGSW-2402A's may be stacked giving up to 192 10/100Base-TX ports plus 2 Gigabit ports. By mixing them in a single stack is also possible to achieve a combination of architectures and abilities for maximum flexibility. Most stacked switches are limited by the length of a proprietary stack cable, but with the WGSW-404 and WGSW-2402A the maximum distance between two stacked switches can be up to 10 km using Planet's Ethernet stack connectivity.

Designed as a Layer 2 switch with layer 3 software routing functions, the WGSW-2402A can easily integrate into existing network configurations and can be managed through the console, telnet and the web. SNMP MIBII, Bridge MIB, RMON groups 1, 2, 3, 9 and enterprise private MIB are also supported for maximum management functionality.

The standard IEEE 802.1Q with VLAN tagging feature makes logically separating nodes easier, with up to 128 VLAN groups allowed on both units. IGMP snooping is provided to prevent flooding of IP multicast traffic. Port security and MAC address filtering are also included as a standard feature to enhance overall network access security.

▶▶ KEY FEATURE

- Complies with IEEE 802.3, 802.3u, 802.3z and 802.3ab Ethernet Standards, IEEE 802.3x flow control, 802.1D Spanning Tree, 802.1p QoS, 802.1Q VLAN
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Support 16K MAC addresses
- IEEE 802.3x full duplex PAUSE frame, half duplex back pressure flow control
- Runt and CRC filtering eliminates erroneous packets to optimize network bandwidth
- LED indicators for simple diagnostics and management
- Auto-MDI/MDI-X on each 100Base-TX and 1000Base-T port
- Software routing function with RIP, RIP-2, DHCP relay and proxy ARP support
- Can be configured up to 128 groups of 802.1Q VLANs with GARP/GVRP supports
- Support port trunking for maximum 4 ports per trunk
- Support IP Multicast with IGMP snooping up to 64k groups
- Up to 8 units can be stacked by Ethernet connection and managed by a single IP
- Provides 4 priority queues on 10/100 ports and 8 priority queues on Gigabit ports
- Queuing is based on IEEE 802.1p tag or ToS of IP layer
- Configurable frame scheduling methods including delay bound, strict priority, weighted fair queuing and best effort
- Rate control is supported to provide 10 levels of rate (10% to 100%)
- Supports SNMP MIB II, Ethernet MIB, VLAN MIB, RMON group 1, 2, 3, 9 and enterprise private MIB
- Supports port mirroring

Product	24-port + 2 Gigabit-slots Managed Stackable Switch---WGSW-2402A		
Model	WGSW-2402A		
Hardware Specification			
Ports	24 10/ 100Base-TX RJ-45 Auto-MDI/MDI-X ports		
Module Slot	2		
Supported Module	1000Base-SX/T and 100Base-FX		
Stack Interface	Through Ethernet interface. Up to 8 units can be managed by single IP		
Switch Fabric	12.8Gbps		
Switch Processing Scheme	Store-and-forward		
Throughput (packet per second)	6.547Mpps		
Address Table	16K entries		
Queue Buffer	2Mbytes		
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex		
Dimensions	430 x 350 x 44.5 mm, 1U high		
Weight	4.4 kg		
Power Requirement	100-240 VAC, 50-60 Hz		
Power Consumption	50 Watts maximum		
Heat Dissipation	170 BTU/hr maximum		
Temperature	Operating: 0~50 degree C, Storage -40~70 degree C		
Humidity	Operating and Storage: 10% to 95% (Non-condensing)		
Network Management			
System Configuration	Console port, Telnet, Web browser, SNMP/RMON		
Management Agent	MIB II, Ethernet MIB, RMON MIB, VLAN MIB and enterprise private MIB		
RMON	Groups 1, 2, 3, 9 (Statistics, History, Alarm and Event)		
Spanning Tree Algorithm	IEEE 802.1D		
VLAN	802.1Q VLAN with GARP/GVRP, up to 128 VLANs supported		
Routing	RIP, RIP-2, DHCP Relay, proxy ARP and ICMP Router Discovery Message		
Static Address Filtering	Source and destination MAC addresses filtering		
IGMP Multicast Filtering	Support IP multicast with IGMP snooping up to 64k groups		
Port trunking	Up to 4 ports in a trunk. 3 trunk groups support		
Port Mirroring	2 mirroring port supports		
QoS	Based on IEEE 802.1p tag or ToS of IP layer		
Priority Queue	4 priority queues on 10/100 ports and 8 priority queues on Gigabit ports		
QoS Scheduling	Supports delay bound, strict priority, WFQ (Weighted Fair Queuing) and best effort service disciplines		
Congestion Avoidance	Supports WRED (Weighted Random Early Detection) drop threshold management		
Rate Control	10 levels of rate (10 to 100%) configurable on 10/100Mbps port -		
Standards Conformance			
Regulation Compliance	FCC Part 15 Class A, CE		
Standards Compliance	IEEE 802.3 (Ethernet)	IEEE 802.3u (Fast Ethernet),	IEEE 802.3z (1000Base-SX/LX),
	IEEE 802.3ab(1000Base-T),	IEEE 802.1D (STP),	IEEE 802.3x (full-duplex flow control),
	IEEE 802.1p (QoS),	IEEE 802.1Q (VLANs)	RFC 768 UDP
	RFC 783 TFTP	RFC 791 IP	RFC 792 ICMP
	RFC 826 ARP	RFC 854 Telnet	RFC 1058 RIP
	RFC 1122 Host Requirements	RFC 1157 SNMP v1/v2	
	RFC 1213 MIB II	RFC 1493 Bridge MIB	RFC 1812 IP Router Requirement
	RFC 2131 DHCP Relay	RFC 2068 HTTP	PRFC 2236 IGMPv2
	RFC 2674 VLAN MIB	RFC 1256 ICMP Router Discover Protocol	
	RFC 1757 RMON 4 groups, statistics, history, alarms and events		

▶▶ PRODUCT APPLICATION

□ **Department Switch**

With 24-ports of 10/100Base-TX and two Gigabit Fiber/Copper/100Base-FX uplink connectivity plus stack functionality, the WGSW-2402A is the right choice for power workgroups requiring a fast link to the LAN backbone.

▶▶ ORDERING INFORMATION

▶ **WGSW-2402A** 24-port + 2 Gigabit-slots Managed Stackable Switch

Available Modules

- ▶ **WGSW-C1GT** 1-port 10/100/1000Mbps Ethernet Module (RJ-45)
- ▶ **WGSW-C1SX** 1-port 1000Base-SX Ethernet Module (SC, MM)
- ▶ **WGSW-C1LX** 1-port 1000Base-LX Ethernet Module (SC, SM/MM)
- ▶ **WGSW-C1ST** 1-port 100Base-FX Ethernet Module (ST, MM)
- ▶ **WGSW-C1SC** 1-port 100Base-FX Ethernet Module (SC, MM)



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