

The WideBand Professional Series Gigabit Ethernet switches are the leading high performance solution for tier-1 networking customers with existing wiring. Providing 8, 16, or 28 ports of WideBand's uniquely powerful 10/100/1000 connectivity, the Professional Series switches provide flexibility for an easy migration path to higher bandwidths as needed. Managed and Layer 3 models are ideal for network cores, backbones or server farm and desktop deployment.



Gigabit Ethernet Without Rewiring: The Professional Series switches utilize WideBand's robust signaling technology allowing Gigabit connections over Category 5 runs in excess of 200 meters, and even over 100-meter segments of Category 3 cable. The switches have been WGNA Certified to transmit data up to a full 100 meters with a bit error rate of less than 1 per million on all grades of Category 5 cables, ensuring not just connectivity, but full bandwidth on existing network wiring.

Breakthrough SPU Technology: WideBand's Switch Processing Unit (SPU) is integrated to provide a never before seen level of management control while eliminating costly components needed in competing designs. The Managed switch models provide extensive support for VLANs, traffic prioritization, and packet filtering based on Layer 2, 3, and 4 information.

Wire-speed Layer 2/3 Switching and IP Routing: The WideBand Professional Series switches deliver wire-speed switching and MAC address learning in a fully non-blocking architecture. The Layer 3 models add enterprise-class IP routing at wire-speed as well as QoS provisioning features based on Layer 2/3/4 and IEEE 802.1p tag information.

Auto MDI/MDI-X Makes Connecting Easy: All the ports automatically detect straight-through/crossover cable types, eliminating communication problems resulting from cable type mismatches. This feature also eases cascading with other hubs and/or switches.

Designed and Manufactured in the USA: WideBand Professional Series switches are designed and manufactured in the United States by WideBand Corporation. This allows a uniquely high level of quality control that shows in the dependability of the products.

Specifications

Standards Compliance	WideBand Gigabit Networking Alliance (WGNA), IEEE 802.3x, IEEE 802.1d, IEEE 802.1q, IEEE 802.3z, IEEE 802.3u, IEEE 802.3, IEEE 802.1p, IEEE 802.3ad
Ports	8, 16, or 28 -- 10/100/1000 Auto-sensing, Auto Negotiating UTP Ports, Auto MDI/MDI-X
Memory	Shared Memory Architecture
Supported MAC Addresses	Layer 2 - 8,000; Layer 3 - 32,000
Jumbo Frame Support	Up to 32704 bytes (v.05 models)
Quality of Service	Traffic prioritization based on Layer 2,3 and 4 information and 802.1p tag
Status Register Access	Allowed Without Packet Transfer Interruption
Flow Control	Symmetric and Asymmetric Pause Flow Control Supported Full Duplex: IEEE 802.3x, 10/100/1000 Mbps; Half Duplex: Back Pressure, 10/100 Mbps
Switching Mode	Store-and-Forward, Wire-Speed Layer 2 Switching, Hardware-based wire-speed IP Layer 3 routing (Layer 3 models)
Supported Cables	10 Mbps: Category 3 or Greater, 100 Mbps and 1000 Mbps: Category 5 or Greater
Warranty	1-year; 3-year Support Package available

Managed Switch Features

Supported VLANs	4,093, IEEE 802.1q
VLAN Tagging Capabilities	IP address & subnet (Layer 3 models), MAC address, protocol, received port, incoming VLAN ID, 802.1q priority, Ethernet type packet, LLC DSAP, LLC SSAP, Ethernet II, NetWare, SNAP, IEEE 802.3 or 802.2, IPv4 and IPX
Management	WideBand ProSwitch Management Software included
Management Capabilities:	Packet filtering supported including IGMP snooping SNMP, SMON and RMON statistics counters supported Link Aggregation for high-bandwidth interswitch links, supporting the IEEE 802.3ad standard Spanning Tree, Broadcast Storm Control and Port Mirroring

Ordering Information

	Part Number	Description
Unmanaged Models	WB8GPRO	8-port 10/100/1000Mbps Gigabit Ethernet Switch, WGNA Certified
	WB16GPRO	16-port 10/100/1000Mbps Gigabit Ethernet Switch, WGNA Certified
	WB28GPRO	28-port 10/100/1000Mbps Gigabit Ethernet Switch, WGNA Certified
Managed Layer 2 Models	WB8GMPRO	8-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 2 Switch, WGNA Certified
	WB16GMPRO	16-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 2 Switch, WGNA Certified
	WB28GMPRO	28-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 2 Switch, WGNA Certified
Managed Layer 3 Models	WB8GM3PRO	8-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 3 Switch, WGNA Certified
	WB16GM3PRO	16-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 3 Switch, WGNA Certified
	WB28GM3PRO	28-port 10/100/1000Mbps Managed Gigabit Ethernet Layer 3 Switch, WGNA Certified
Support Package	(Switch Part #)-S3	3-year Support Package



Made in U.S.A.

Specifications in this document are subject to change without notice.