

SHDSL Business Gateways NBG400 Series



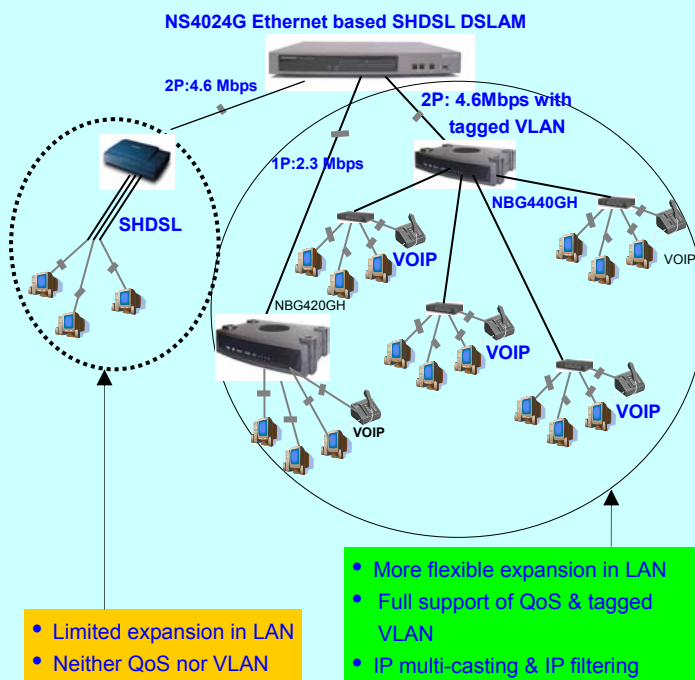
Implementing international standard-based ITU-T/ETSI G.SHDSL transmission (G.991.2) with robust IP routing, concurrent bridging functions and built-in 4-port Ethernet switch, NBG400 Series Business Gateways are perfect for mission-critical applications such as campus networking, multimedia services and network gateway access.

Interoperating with NexComm's Ethernet-based SHDSL Mini-DSLAM NS4024G, the NBG400 Series provide a cost-effective alternative of Ethernet networking of Point to Multi-Point application for SMBs that have multiple buildings in a campus-like environment. By leveraging Tag-based VLAN and STP capabilities of the NBG400 Series, the campus ensures a highly secure and reliable network. By utilizing the Ethernet-based QoS capabilities the campus can take advantage of voice and video applications. This application requires no new infrastructure, and results in a low-cost, plug-and-play solution with low management overhead.

Features of Tag-based VLAN

- Fully complying with IEEE 802.1P/Q
- Supporting 16 concurrent VLANs & 4 Levels of QoS
- Traffic control for QoS demand for advanced services such as Voice over IP (VoIP) and video conferencing
- Suitable for Metro Ethernet Service provisioning

Prioritized Service w/ NBG 400 Series



Product Line

- **NBG420 2-Wire SHDSL Business Gateway**
 - SHDSL speeds to 2.3 Mbps
 - Broadband single copper pair connectivity with TC-PAM full-duplex high speed symmetric data rates and distances exceeding 7.2 kilometers
- **NBG440 4-Wire SHDSL Business Gateway**
 - Inverse Multiplexing (iMUX) 2 copper pair connectivity
 - Boosting up SHDSL speeds to 4.6 Mbps
 - 2-pair SHDSL line protection

Extra Performance Benefits

- Ethernet-based architecture: Providing 10% greater throughput without paying cell tax (ATM Cell Overhead)
- Maximizing full bandwidth with wire-speed performance

NAT, DHCP, STP, Security

- Powerful routing and concurrent bridging function with IP filtering make shared Internet connectivity simple and secure
- Work as both bridge and router

Advanced Remote Management

- Remote installation, operation and management
- Once NBG400 Series are configured to NS4024G, NBG400 Series can be managed and monitored for operation and traffic status remotely
- Capability to download and restore the latest configuration of NBG400 Series from NS4024G by utilizing proprietary protocol without the need of IP
- Plug-and-play with auto configuration, No truck-roll required

IP Multicast

- IGMP Snooping
- Real-time multimedia applications such as video conferencing, corporate communication, distance learning, and distribution of software, stock quotes and news

Interoperable Nexpeed DSLAM Series

- NS4024G: 24-port SHDSL Mini-DSLAM
- NS3048: 48-port SHDSL DSLAM
- NR104G: 4-port SHDSL iMUX Router/ Concentrator

Specifications

Power Requirement	External Power supply module Input: AC 85 to 264V, 45 to 65 Hz Output: DC +5V, 2A	Bridging (continued)	Flooding control Spanning Tree Protocol (802.1d) Rapid Spanning Tree Protocol (802.1w)* Per VLAN Spanning Tree (PVST) support* IP Multicast (IGMP snooping)*
Mechanical	Dimension: 238mm(W) x 182mm(D) x 47mm(H) Weight: 511g Mount: Stackable desktop	Routing	Numbered/Unnumbered WAN interface Dynamic & Static IP, RIP1 & RIP2 Proxy ARP, NAT, DHCP Server/Relay PAP, CHAP for Security
Environment	Operating Temperature: 0°C to 50°C Storage Temperature: -20°C to 70°C Humidity: 5%~95%, non-condensing	VLAN	Port-based VLAN IEEE 802.1Q Tag-based VLAN No. of IEEE 802.1Q tag-based VLAN: 16 GVRP support*
Line Interface	SHDSL: One pair SHDSL (RJ-45 Jack) for NBG420GH Two-pair SHDSL (RJ-45 Jack) for NBG440GH LAN (Ethernet): 10/100Base-T with RJ45, MDI/MDI-X 4 Ports Full support of maximum wire-speed	QoS	Traffic Classification Based on: - Port-based priority - VLAN priority field in VLAN tagged frame - DS/TOS field in IP packet 2 strict priority queues Traffic control for each queue
Data Rate	NBG420: 200Kbps ~ 2.3Mbps at 64Kbps step NBG440: 384Kbps ~ 4.6Kbps at 128Kbps step Two-Pair SHDSL Line Protection & Load balancing	Management	Local consol with DB-9 port SNMP v1, Telnet Web-based management Automatic CPE management - Remote Monitoring & Configuration
Diagnostic LED	Power: On/Off 4W On (4 wire mode only for NBG440) LAN Activity, Link(1~4), WAN Sync1, Sync2, ACT		
Bridging	1K MAC addresses MAC address filtering MAC address limiting		

All future options are marked with '*'. Please contact NexComm's sales division or authorized dealer in your location for further details.

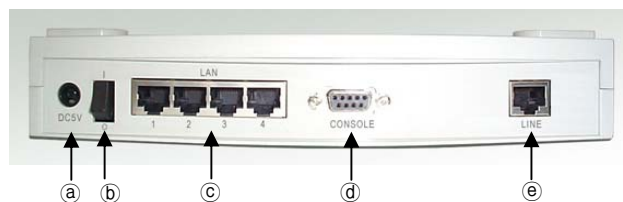
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Quality Management

NexComm Systems, Inc has been certified ISO9001 from American Quality Assurance Ltd. Authorized agent of International Standard Organization (ISO)9001 Quality Management Standard.



Back Panel



- Ⓐ **To Power:** DC connector
- Ⓑ **Power Switch**
- Ⓒ **To LAN:** 4 Ports RJ-45 Jack
- Ⓓ **To Control Terminal (Console):** DB-9 port
- Ⓔ **To LINE:** RJ-45 Jack

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