

NBG400 SERIES

SHDSL Business Gateways



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NBG420: 2.3Mbps/2wires

NBG440: 4.6Mbps/4wires

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

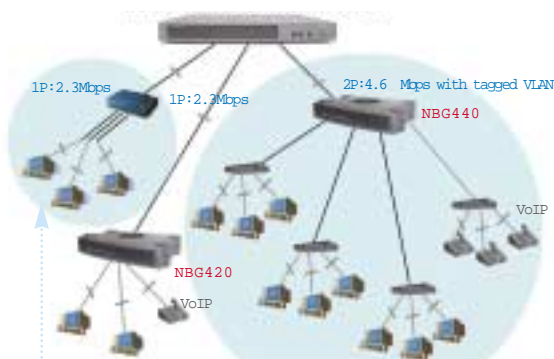
Interoperating with NexComm's Ethernet-based SHDSL DSLAM NS4000 Series, the NBG400 Series provides a cost-effective alternative to traditional leased line service for both service Providers and Enterprises. By leveraging Tag-based VLAN capabilities of the NBG400 Series, the business users can ensure a highly secure and reliable network. By utilizing Ethernet-switch based QoS capabilities the business users can take advantage of Class of Service (CoS) applications. Such applications can be realized by user-friendly, and plug-and-play management enabling the users to save Operating Expenditure (OPEX) significantly.

Features of Tag-based VLAN

- Fully complying with IEEE 802.1P/Q
- Supporting 16 concurrent VLANs & 2 Levels of QoS
- Traffic control for QoS demand on advanced services such as Voice over IP (VoIP) and video conferencing
- Suitable for Metro Ethernet Service provisioning over the existing copper infrastructures.

☛ "Prioritized Service with NBG 400series

NS4000 Series Ethernet-based SHDSL DSLAM



- Limited expansion in LAN
- Neither QoS nor VLAN

- More flexible expansion in LAN
- Full support of QoS & tagged VLAN
- IP multicasting & IP filtering

Product Line

- NBG420: 2-Wire SHDSL Business Gateway
 - SHDSL speeds to 2.3 Mbps
- NBG440: 4-Wire SHDSL Business Gateway
 - Boosting up SHDSL speeds to 4.6 Mbps
 - Inverse Multiplexing (iMUX) 2 copper pair connectivity
 - 2-pair SHDSL line resiliency

Extra Performance Benefits

- Ethernet-switch based architecture: Providing 20% greater IP throughput eliminating Packet conversion overhead between ATM and IP.
- Maximizing full bandwidth with wire-speed performance

Layer 2 & 3 functionalities - NAT, DHCP, STP, Security

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

Advanced Remote CPE Management Protocol (RCMP)

- Remote Operation, Administration, Management, and Provisioning without IP address
- Once NBG400 Series are connected to NS4000 Series, NBG400 Series can be managed and monitored remotely
- Capability to download and restore the latest configuration of NBG400 Series from NS4000 Series by utilizing RCMP
- Easy firmware upgrade by RCMP
- Leading to save Operating Expenditure (OPEX) by eliminating truck roll

Interoperable Nexpeed DSLAM

- NS4000 Series: 12 & 24-port SHDSL DSLAM

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Specification

POWER REQUIREMENT

External Power supply module
Input: AC 85 to 264V, 45 to 65 Hz
Output: DC +5V, 2A

MECHANICAL

Dimensions 238mm(W) x 182mm(D) x 47mm(H)
Weight 511 g
Mounting Stackable desktop

ENVIRONMENT

Operating Temperature 0°C to 50°C
Storage Temperature -20°C to 70°C
Humidity 5%~95%, non-condensing

LINE INTERFACE

SHDSL Compliant to ITU-T G.991.2
One pair SHDSL (RJ-45 Jack) for NBG420
Two-pair SHDSL (RJ-45 Jack) for NBG440
LAN (Ethernet) 10/100Base-T with RJ45,
MDI/MDI-X 4 Ports

DATA RATE

NBG420 200Kbps ~ 2.3Mbps at 64Kbps step
NBG440 384Kbps ~ 4.6Kbps at 128Kbps step

DIAGNOSTIC LEDs

Power(Green) On/Off
4W(Orange) On (4 wire mode only for NBG440)
LAN(Green) Activity, Link(1~4), WAN Sync1, Sync2, ACT

BRIDGING

1K MAC addresses
MAC address filtering
MAC address limiting
Flooding control
Spanning Tree Protocol (802.1d)*

ROUTING

Numbered/Unnumbered WAN interface
Dynamic & Static IP, RIP1 & RIP2
Proxy ARP, NAT, DHCP Server/Relay
PAP, CHAP for Security

VLAN

Port-based VLAN
IEEE 802.1Q Tag-based VLAN
No. of IEEE 802.1Q tag-based VLAN: 16

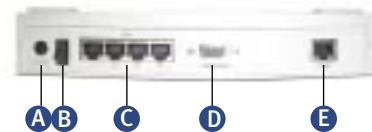
QoS

Traffic Classification Based on:
- Port-based priority
- VLAN priority field in VLAN tagged frame
Two strict priority queues
Traffic control for each queue

MANAGEMENT

Local consol with DB-9 connector
SNMP v1, Telnet
Web-based management
Remote CPE Management Protocol (RCMP)

BACK PANNEL



- A To Power :** DC connector
- B Power Switch**
- C To LAN :** 4 Ports RJ-45
- D To Control Terminal (Console) :** DB-9
- E To LINE :** 1 x RJ-45

Quality Management

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

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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NEXCOMM

S Y S T E M S

C-501, Bundang Techno-Park, 145 Yatap-Dong, Bundang-Ku
Sungnam-City, Kyunggi-Do, 463-760, Korea
Phone: +82.31.781.1862 / Fax: +82.31.781.1863
E-mail: sales@nexcomm.co.kr
URL: www.nexcomm.co.kr

Authorized Dealer

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