

# NEXPEED NR104G

## SHDSL 4 Port iMUX Router



The NEXPEED NR104G 4 port iMUX Router performs SHDSL inverse multiplexing function as well as access concentration, termination, and TCP/IP routing in a single easy-to-use package. Supporting up to 4 SHDSL ports, the NR104G ensures quality of service for enterprises and campuses, and tenants of the MTUs can receive unmatched internet service at the lowest system cost per port on the market.

- Fully utilizing an existing telephone copper pair, data transmission rates can be obtained from 200Kbps to 2.3Mbps per one SHDSL port. Hence, up to 9.2Mbps can be attained by using all four SHDSL ports for the maximum upstream and downstream rates, in both directions.
- ISP, ILEC and CLEC can provide extremely affordable Internet broadband services, with the combination of NR104G and NEXPEED SHDSL CPE routers.
- ILEC and CLEC can also obtain the transmission rate near that of fiber optic bandwidth of up to 9.2Mbps over four twisted copper pairs, with the combination of NexComm's NR104G 4 port iMUX routers.
- Load balancing functionality of NR104G ensures scalable bandwidth for enterprises that require gradually increasing bandwidth for their internet usage/services.
- Designed to fit in 19" rack, NR104G provides scalability for additional capacity by simply stacking up.

Each NR104G's SHDSL port can be interfaced with NEXPEED SHDSL CPE modem/router products. Available CPE's are NR300 series routers and NM200 series modems.

### Maximum Access Flexibility

With SHDSL interface, NR104G can support broadband Internet services with data rates from 200Kbps to 2.3Mbps on a single pair and up to 9.2Mbps by using four ports of SHDSL Lines. NR104G's multi-rate and adjustable SHDSL technique provides the flexibility to set-up and allocate the range of bandwidth for an existing LAN environment.

### Various Routing Functions

To meet the requirements from the service provider or company network manager, NEXPEED series routers enable various routing functions such as IP, RIP1 & RIP2 and etc.

NAT can function as a security device with its address translation function. NAT also helps ISPs control the assignment of scarce addresses.

### Easy Installation and Management

CLI (Command Line Interface) in the NR104G router simplifies installation thus reduces operating cost. NR104G also includes various diagnostic LED's for at-a-glance troubleshooting. The LEDs monitor activities of each port and help pinpoint network problems.

For management and control, NR104G includes embedded Telnet Server and Client System. S/W can be upgraded in the field using Trivial File Transfer Protocol.

NR104G is also equipped with a DHCP (Dynamic Host Configuration Protocol) server and relay agent, which enable dynamic assignment of IP addresses to multiple PCs.

This feature also simplifies IP address setup, as the router supplies IP addresses to clients as required, and minimizes the local set-up time for the network administrator.

# NEXPEED NR104G Specifications

## POWER REQUIREMENT

AC 85 ~ 265V (Auto Voltage)

## MECHANICAL

Dimensions 432mm(W) x 210mm(D) x 43mm(H)  
Weight 3.0Kg (6.6 lb)  
Mounting Scalable to fit in 19" Rack

## ENVIRONMENT

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

## PROTOCOLS

Routing Number/Unnumbered WAN interface,  
Dynamic & static IP, RIP1 & RIP2,

Bridging Transparent Bridge  
Load Balancing Bridging / Routing  
Encapsulation HDLC, PPP, Frame-Relay

TFTP(Trivial File Transfer Protocol)

Proxy-ARP(Address Resolution Protocol)

NAT(Network Address Translation)

DHCP(Dynamic Host Configuration Protocol) Server/Relay

## INTERFACES

WAN Four SHDSL (RJ-45 Jacks)  
LAN (Ethernet) One 10/100Base-T Ethernet (RJ-45 Jack)

## DATA RATE

Rate adaptive or fixed mode  
From 200Kbps to 9.2 Mbps

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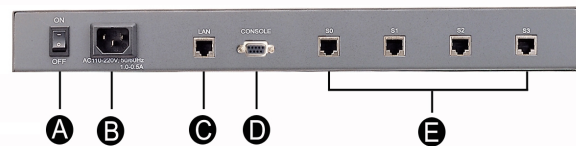
## MANAGEMENT

CLI(Command Line Interface) : Local Console Port with DB-9  
Remote Management via TELNET  
SNMP Agent  
System diagnostics and logs  
Web based management (HTTP Server)  
Configuration backup and restoration

## DIAGNOSTIC LEDS

Power On/Off  
LAN Status Activity, Collision, Link  
WAN Status Sync, Tx-Data, Rx-Data

## BACK PANNEL



- Ⓐ **Power Switch**
- Ⓑ **To Power** : AC Power Inlet
- Ⓒ **To LAN** : RJ-45 Jack
- Ⓓ **To Console** : DB9 Jack
- Ⓔ **To DSL Line** : RJ-45 Jack(use pin no. 4 and 5)

## CERTIFICATIONS

EMC CE EN55022 Class A  
EN55024  
SAFETY CE EN60950  
ACA TS001:1997

ACA/ACIF S043.2:2001

## 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



NR104G\_revision1.0

**NEXCOMM**  
S Y S T E M S

#201, Admin Bldg. Bundang Techno-Park, 151 Yatap-Dong, Bundang-Ku, Sungnam-City,  
Kyunggi-Do, 463-070, Korea  
Phone: +82-31-781-1862 / Fax: +82-31-781-1863  
URL : <http://www.nexcomm.co.kr>  
E-mail: [sales@nexcomm.co.kr](mailto:sales@nexcomm.co.kr)