

# NEXPEED NR104S

## SDSL 4 Port iMUX Router



The NEXPEED SDSL iMUX Router/Access Concentrator NR104S performs SDSL inverse multiplexing function as well as access concentration, termination, and TCP/IP routing in a single easy-to-use package. Supporting up to 4 SDSL ports, the NR104S ensures quality service for small businesses and campuses, and tenants of the MTUs can receive unmatched internet service at the lowest system cost per port on the market.

- Fully utilizing the existing telephone copper pair, data transmission rates from 144Kbps to 2.3Mbps per one SDSL port can be attained. Hence, up to 9.2Mbps can be attained by using all four SDSL ports for maximum upstream and downstream rates, in both directions.
- With the combination of NR104S and NEXPEED SDSL CPE routers, ISP, ILEC and CLEC can provide extremely affordable Internet broadband services. Thus they can reduce the infrastructure cost substantially.
- With the combination of NexComm's DSLAM and NR104S iMUX routers, ISP, ILEC and CLEC can obtain transmission rates near that of fiber optic bandwidth of up to 9.2Mbps over four twisted copper pairs.
- Load balancing functionality of NR104S ensures scalable bandwidth for enterprises that require gradually increasing bandwidth for their internet usage/ services.
- Designed to fit in 19" rack, NR104S provides scalability for additional capacity by simply stacking up.

Each NR104S's SDSL port can be interfaced with NEXPEED SDSL CPE modem/ router products. Available CPE's are NEXPEED family modems and routers.

### Maximum Access Flexibility

With SDSL interface, NR104S can support broadband Internet services with data rates from 144Kbps to 2.3Mbps on a single pair and up to 9.2Mbps by using four ports of SDSL Lines. NR104S's multi-rate and adjustable SDSL technique provides the flexibility to set-up and allocate the range of bandwidth for an existing LAN environment.

### Economical Internet Access

With Network Address Translation technology, the NEXPEED series routers enable multiple users on the LAN to simultaneously access the Internet with a single IP address. NexComm Systems' implementation of NAT does not only support client sessions initiated from local network but also support server access (such as HTTP server) initiated from the Internet.

NAT can be utilized 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 NEXPEED concentrator simplifies installation and reduces equipment cost. NR104S 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, NR104S includes embedded Telnet Server and Client System. S/W can be upgraded in the field using Trivial File Transfer Protocol.

NR104S is also equipped with a DHCP (Dynamic Host Configuration Protocol) server and relay agent, which enable dynamic assignment of IP addresses to PCs.

This feature 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 NR104S Specifications

## POWER REQUIREMENT

AC 85 ~ 265V (Auto Voltage)

## MECHANICAL

Dimensions 432mm(W) x 210mm(D) x 43mm(H)

Weight 3.0Kg

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 IP, RIP1 & RIP2,

Bridging Transparent Bridge  
Load Balancing Bridging / Routing

Encapsulation HDLC, PPP, Frame-Relay

ARP(Address Resolution Protocol)

NAT(Network Address Translation)

DHCP(Dynamic Host Configuration Protocol) Relay

DHCP Server

## INTERFACES

WAN Four SDSL (RJ-45 Jack)

LAN One 10/100Base-T Ethernet (RJ-45 Jack)

## DATA RATE

From 144Kbps to 2.3Mbps

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Specifications are subject to change without prior notice.

## MANAGEMENT

CLI(Command Line Interface) : Local console port with DB9 Jack

TELNET

SNMP Agent MIB-II

HTTP(Hypertext Transfer Protocol) Server

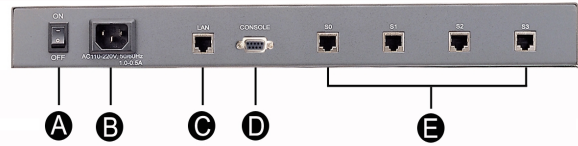
## DIAGNOSTIC LEDS

Power On/Off

LAN Activity, Collision, Link

WAN Sync, Tx-Data, Rx-Data

## BACK PANNEL



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

## Warranty

NexComm Systems, Inc. warrants NEXPEED product family to be free from defects in workmanship and materials, under normal use and service, for a period of one year from the date of purchase for NexComm Systems Inc. or its Authorized Resellers.

## 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



NR104S\_revision1.0

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