

NEXPEED NR301SH

SDSL Router



NEXPEED NR301SH SDSL bridge/ router provides a robust routing feature set for seamless integration of SDSL that utilizes existing single pair copper wiring to enable the symmetrical broadband data communication service to the corporate LAN users.

NEXPEED NR301SH provides four 10Base-T Ethernet ports for connection to enterprise LAN which has multiple PCs.

NEXPEED NR301SH inter-operates with NexComm's other SDSL CPE products as well as world's leading SDSL vendor's IP based DSLAM to provide complete SDSL solutions for ISPs and Network Service Providers(CLEC and ILEC).

Maximum Access Flexibility

With SDSL interface, NEXPEED NR301SH can support broadband Internet service from 144Kbps to 2.3Mbps on a single pair copper wire. The adaptive and multi-rate SDSL provides flexibility to set-up and allocates desired bandwidth for existing LAN environments.

Concurrent Bridging and Routing

With concurrent routing and bridging, NEXPEED NR301SH router provides an economical solution for accessing the Internet and establishing Intranet. This function eliminates the need for two separate devices, modem and router.

Dedicated bridging with filters simplifies operation and provides connectivity to the users of Windows OS and other network protocols.

Standard Protocols are supported

NEXPEED NR301SH router supports most of the telecommunication protocols in the industry. It includes ATM(Asynchronous Transfer Mode), FR(Frame Relay), PPP and HDLC. This kind of flexibility helps service providers make the most of their existing infrastructure at maximum efficiency.

Economical Internet Access

With Network Address Translation technology, the NEXPEED router enables multiple users on the LAN to simultaneously access the Internet with a single IP address. The NexComm Systems implementation of NAT not only supports client sessions initiated on the LAN, but also supports 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

> Automatic Bandwidth Setup

NEXPEED router series implement automatic bandwidth setup procedures. The line rate is determined according to the rate of COE(central office equipment).

> Ordinary Command Line Interface(CLI)

CLI(Command Line Interface) in the NEXPEED access router simplifies installation procedures.

> Web Browser Control

The NEXPEED router's HTTP server software simplifies set-up procedures. It enables the remote access to the system via Internet as well as TELNET.

> Telnet Server and Client

For easier management and control, the NEXPEED router includes Telnet Server and Client. System software upgrade files can be downloaded via Trivial File Transfer Protocol (TFTP).

> Dynamic Host Configuration Protocol(DHCP)

NEXPEED NR301S/ NR301SH is also equipped with DHCP server and relay, which enable the NEXPEED router to dynamically assign IP address and minimize local set-up time for the network administrator.

> At-a-Glance LED Diagnostics

NEXPEED router also includes 6 diagnostic LEDs for an at-a-glance trouble shooting. They monitor the activities of each port and help pinpointing network problems.

NEXPEED NR301SH Specifications

POWER REQUIREMENT

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

MECHANICAL

Dimension	230mm(W) x 165mm(D) x 35mm(H)
Weight	0.5Kg
Mounting	Desktop or Wall-mount

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
SDSL	IPoA, PPPoA, PPPoE HDLC, PPP, Frame-Relay, ATM RFC1483, RFC1490

INTERFACES

WAN	One SDSL (RJ-45 Jack)
Ethernet	Four 10/100Base-T Ethernet (RJ-45 Jack)

DATA RATE

from 144Kbps to 2.3Mbps

APPLICATIONS

Telnet
TFTP(Trivial File Transfer Protocol)
Proxy ARP(Address Resolution Protocol)
NAT(Network Address Translation)
DHCP(Dynamic Host Configuration Protocol) Relay
DHCP Server

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Specifications are subject to change without prior notice.

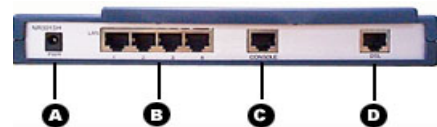
MANAGEMENT

CLI	Console (RJ-45), TELNET
SNMP Agent	MIB-II
HTTP(Hypertext Transfer Protocol) Server	

DIAGNOSTIC LEDs

Power	On/Off
LAN	Activity, Collision, Link (1 ~ 4)
WAN	Sync, Tx-Data, Rx-Data

BACK PANNEL



- Ⓐ **To Power** : DC Connector
- Ⓑ **To LAN** : RJ-45 Jack(4 ports)
- Ⓒ **To Control Terminal (Console)** : RJ-45 Jack
- Ⓓ **To DSL Line**: RJ-45 Jack(use pin no.4 and 5)

Interoperability

NEXPEED NR301SH router is interoperable with major DSLAM vendors. Please contact your authorized resellers for the latest interoperability information.

Warranty

NexComm Systems, Inc. warrants NEXSPEED 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



NR301SH_revision 1.0

NEXCOMM
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