

## Broadband Copper Access Solution



**NEXPEED NM500 Series is a G.SHDSL.bis bridge modem, which allows multiple PCs sharing high speed internet access.**

ITU-T Standard(G.991.2) based G.shdsl.bis technology provides symmetrical data rates of 192Kbps to 11.4Mbps with a range up to 7km using single pair of ordinary telephone wire.

It can function as a remote LAN to LAN application.

NM500 Series can be configured as two types by simply setting parameters in HTTP server, one is Master Unit which operates as Central Office Equipment and the other is Slave Unit as a Customer Premises Equipment which doesn't need to be configured at remote site. The device has been designed for use both in office and home environments, compact in size and supporting plug-and-play to provide convenience for users.

### Applications

Low cost entry level SHDSL Customer Premise Equipment(CPE) modem to utilize high-speed DSL services

Back to Back connection for remote LAN extension

### High lights

#### **TC-PAM encoded G.shdsl.bis**

One or Two WAN with RJ-45 and one LAN with RJ-45

Rate adaptive mode

VPN pass through for PPTP, L2TP, IPSec

Tagged VLAN packet pass through

Configurable by HTTP server

Plug and play when CPE mode operation

Intelligent diagnostic functions

### Features

#### Wide Range of Transmission Rates

Ranging from 192Kbps to 11.4Mbps, the product supports multi levels of transmission rates both in fixed mode and auto baud mode according to the distance.

#### Convenient Installation

Needless of a separate installation program, you can connect to the Internet by simply connecting the LAN cable, telephone wire and power.

#### Economical Efficiency

The NM500 Series presents a remarkably economical solution to your network environment.

#### Various Diagnostic Indicators

The NM500 Series supports LEDs that visually indicates the status (Link, Activity) of each port.

#### Special Features

Power on Self Test

BERT check with loop back

Periodic link status monitoring

**NEXPEED NM500 Series Specifications**

**POWER REQUIREMENT**

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

**MECHANICAL**

Size 142mm(W) x 159mm(D) x 29mm(H)  
Weight 0.6Kg

**ENVIRONMENT**

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

**PROTOCOLS**

Bridging Transparent MAC Bridging

**MANAGEMENT**

HTTP Server  
SNMP

**INTERFACES**

WAN One G.SHDSL.bis for NM520 (RJ-45 Jack)  
Two G.SHDSL.bis for NM540 (RJ-45 Jack)  
LAN One 10Base-T Ethernet (RJ-45 Jack)

**DATA RATES**

From 192Kbps to 5.7Mbps for NM520  
From 384Kbps to 11.4Mbps for NM540  
Fixed mode : n X 64 Kbps  
Auto mode : future released

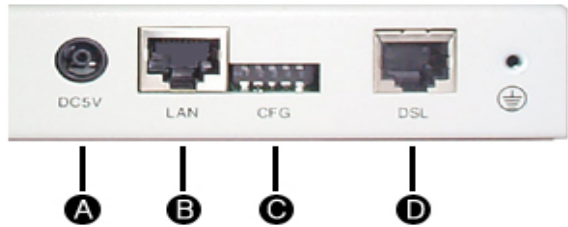
**INDICATORS**

Power On/Off  
WAN LINK Status  
LAN LINK Status  
ACT Activity

**Distance Range with 26AWG single twisted pair by mode**

TCPAM32 Annex F/G  
5696 kbps - 6.5K feet  
768 kbps  
TCPAM16 Annex F/G  
3840 kbps – 9.5K feet  
192 kbps  
TCPAM16 Annex A/B  
2304 kbps – 13.0K feet  
192 kbps

**BACK PANNEL**



- (a) : Power connector
- (b) : LAN RJ-45 Jack
- (c) : Dip switch for DSL configuration
- (d) : WAN RJ-45 Jack

**Interoperability**

NEXPEED NM500 Series Modem is interoperable with major IP based 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



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