NEXPEED NM220G
SHDSL MODEM

NEXPEED NM220G is a SHDSL bridge modem, which allows multiple PCs sharing high speed internet access.

ITU-T Standard (G.991.2) based G.shdsl technology provides symmetrical data rates of 200Kbps to 2.3Mbps with a range up to 7km using single pair of ordinary telephone wire.

It can function as a remote LAN to LAN application, or as a Customer premises Equipment to the NexComm’s SHDSL 4 port iMUX Router NR104G or other vendor’s IP based DSLAMs.

NM220G 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 - at speeds 200 times faster than traditional dial-up modems.
- MTU application with DSLAMs
- Back to Back connection for remote LAN extension

Features
Wide Range of Transmission Rates
Ranging from 200Kbps to 2.3Mbps, the product supports 30 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 NM220G presents a remarkably economical solution to your network environment.

Various Diagnostic Indicators
The NM220G 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

High lights
- TC-PAM encoded G.shdsl
- One WAN with RJ-11 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
NEXPEED NM220G 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
Remote Management(HTTP Server, SNMP)
Windows-based GUI (Windows 9x/ME/NT/2000/XP)

INTERFACES
WAN: One SHDSL (RJ-11 Jack)
LAN: One 10Base-T Ethernet (RJ-45 Jack)

DATA RATES
From 200Kbps to 2.32Mbps
Fixed mode: 30 speeds levels
Rate adaptive mode: automatic

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

Distance Range with 26AWG twisted pair
<table>
<thead>
<tr>
<th>Data Rate</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kbps</td>
<td>Km</td>
</tr>
<tr>
<td>200</td>
<td>7.2</td>
</tr>
<tr>
<td>384</td>
<td>6.4</td>
</tr>
<tr>
<td>512</td>
<td>5.9</td>
</tr>
<tr>
<td>1024</td>
<td>4.4</td>
</tr>
<tr>
<td>1536</td>
<td>3.8</td>
</tr>
<tr>
<td>2048</td>
<td>3.4</td>
</tr>
<tr>
<td>2320</td>
<td>3.0</td>
</tr>
</tbody>
</table>

BACK PANEL

Interoperability
NEXPEED NM220G Modem is interoperable with major IP based DSLAM vendors. Please contact your authorized resellers for the latest interoperability information.

Warranty
NexComm Systems, Inc. warrants NEXSPACE 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

NEXCOMM

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