NetComm®

2-Wire Modem Router

SHDSL

Up to 2.3Mbps Symmetrical data rates.

Use existing telephone Infrastructure.

Bridge or Router modes.

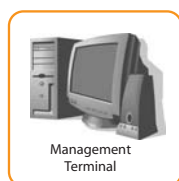## High Speed Symmetrical Internet Connections to service your business needs.

Today's SME and Enterprise business users are constantly battling the unrelenting pressure for more in less time. NetComm's NB702 high speed symmetrical DSL modem router has been designed to utilise existing 2 wire telephone infrastructure to deliver blistering internet connectivity to performance hungry businesses.

Based upon the international standard for G.SHDSL, the NB702 delivers data transfer rates of up to 2.3Mbps symmetrically (up and downstream) making the NB702 ideal for applications such as IP Telephony, Web and Email server hosting, Video Conferencing, large data file transfers or corporate LAN to LAN connections.
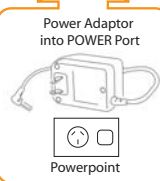
Features

- High Speed Symmetrical Data Transmission on one Twisted Pair of Copper Wire
- ITU standard PAM16 Line Code, complies with G.991.2 and G.994.1 standards
- Supports Annex.A and Annex.B mode operation
- Support Wetting Current range from 0.3mA to 3mA
- One Ethernet switch with four 10/100Mbps auto-sensing ports for PC or LAN connection
- Provides a broad range of Symmetrical Multi-rate Data Transmissions from 72 Kbps up to 2.3 Mbps
- Supports PPPoE (RFC2516), PPP (RFC2364), and IP (RFC 2225/RFC1577) over ATM over SHDSL
- RFC2684 (RFC1483) Bridged/Routed for both LLC/VC MUX
- DHCP server supported for easy LAN IP address management
- Allows LAN users to access Internet through Network Address Translation (NAT, IP sharing) simultaneously
- Local OAM&P through command line interface via RS-232 Craft port
- Configuration and management by local Telnet, SNMP, and WEB Browser through the Ethernet interface, and remotely through SHDSL interface
- Firmware upgradeable through TFTP
- High performance, simple operation, and low power consumption
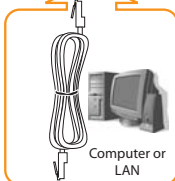
2-Wire Modem Router

Management
Terminal

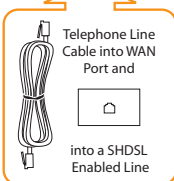Easy to connect with
step by step installation
instructions.

Power Adaptor
into POWER Port

Powerpoint

Computer or
LAN

Telephone Line
Cable into WAN
Port and

into a SHDSL
Enabled Line

Package Contents

- NetComm 2 wire SHDSL Router
- RJ-45 Cable
- RJ-11 Cable
- AC Adapter
- User Guide on CD ROM
- Package Contents Note

Specifications

Hardware

Local Interface
- Four 10/100BaseTX Ethernet switch, IEEE 802.3u, RJ-45 connectors
- 10 Half, 10Full, 100Half, 100Full, Auto Negotiation configurable for each port
- Supports port based VLAN

WAN
- SHDSL Line Interface
- Data Rate: 72 Kbps up to 2.3Mbps rate adaptive
- Line Code: PAM16
- Line Impedance: 135
- Connection Loops: One Pair
- Connector: RJ-11

Indicators
- PWR – Green LED, indicates power and operation
- ACT – Green LED, indicates LAN data Transmitting / Receiving
- LINK – Green LED, indicates LAN data link status
- WAN – Green LED, indicates SHDSL data link status
- ALM – Red LED, indicates data error and operation fault

OAM&P
- Local: RS-232 Craft Port or Telnet, Web browser via Ethernet
- Remote: SNMP, Telnet, or Web browser

Environment
- Operation Temperature: 0˚C ~ 45˚C
- Operation Humidity: 5% ~ 95%
- Storage Temperature: -20 ~ +85˚C
- Storage Humidity: 5%~95%

Physical Dimensions
- (W x D x H) 224mm x 162mm x 33mm

Power
- AC Adapter :Input 110VAC/60Hz or 220VAC/50Hz; Output 12VDC 1A
- Power Consumption: Less than 10 Watts

Certificates
- EMC: CE, FCC Part 15 class B, CB, A-Tick

Specifications

Software

ATM
- ATM Cell over SHDSL, AAL5
- Support UBR & CBR, VBR-nrt & VBR-rt
- VPI Range (0-4095) and VCI range (1-65535)
- Supports up to 8 PVCs for Bridge and 5 PVCs for Router
- Supports OAM F4/F5 loopback
- Payload Encapsulation --
  - RFC2684 (RFC1483), multi-protocol over ATM
  - RFC2225 (RFC1577), IPoA
  - RFC2364, PPP over ATM (CHAP and PAP supported)
  - RFC2516, PPPoE (PPP over Ethernet) over ATM

Bridging
- Transparent Bridging (IEEE 802.1D)
- RFC2684 (RFC1483) Bridged
- Spanning Tree Protocol (IEEE 802.1D)
- Supporting IP, IGMP, and PPPoE packets filter function
- Port based VLAN

Routing
- TCP/IP with RIP1, RIP2, or static IP routing
- NAT/PAT – RFC1631 (basic Firewall support)
- RFC2684 (RFC1483) Routed
- DNS Relay

Configuration and Network Management
- DHCP server for IP management
- Local console configuration and management through RS-232 port
- Telnet for local or remote management
- TFTP for firmware upgrade and configuration
- WEB configuration

NetComm is Australia's dynamic data communications and networking solutions provider. For more information on this and other NetComm products, please visit www.netcomm.com.au

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