NetComm®
www.netcomm.com.au

NB714 G.SHDSL
2-wire or 4-wire SHDSL Modem Router

Firewall **QoS**

	KEY FEATURES
◎	NetComm's NB714 G.SHDSL Modem Router delivers high-speed symmetrical data transmission of up to 2.304Mbps (2-wire) or 4.608Mbps (4-wire).
◎	Enhanced Quality of Service (QoS) for VoIP applications through VLAN.
◎	Advanced SPI Firewall.
◎	Complete with four 10/100Mbps auto-sensing ports for PC or LAN connections.
◎	LAN users can access Internet simultaneously through NAT and IP sharing.
◎	Firmware upgradeable through FTP
◎	Simple operation and low power consumption.
◎	Efficient IP routing and transparent learning bridge to support broadband Internet services
◎	VPN pass-through for safeguarded connections
◎	Virtual LAN (VLAN) offers significant benefits for bandwidth, flexibility, performance and security
◎	Easy configuration & management with password control for various applications and environments

NetComm's NB714 (4-wire) G.SHDSL 4-port Security Modem Router delivers symmetrical DSL services to small and medium size business making them an economical alternative to Leased Line or ISDN services.

Capable of operating in 2-wire or 4-wire configuration, the NB714 can provide data rates from 64kbps to 2.304Mbps (2-wire) or 128kbps to 4.608Mbps (4-wire). It is also fully compliant with the ITU-T G.991.2 standards.

The NetComm NB714 G.SHDSL Modem Router combines integrated high-end Bridging/Routing capabilities with advanced functions such as Multi-DMZ, virtual server mapping, and VPN pass-through. It also supports port-based VLAN and IEEE802.1q VLAN over an ATM network. An advanced Firewall with Stateful Packet Inspection (SPI) and Denial of Service (DoS) protection, all combine to protect your network from outside intruders.

With 4 x 10/100 Base-T auto-sensing, auto-negotiation and auto-MDIX switching ports, the NetComm G.SHDSL Modem Router enables you to leverage the latest broadband technology to meet the growing need for high performance data communication.

TECHNICAL SPECIFICATIONS

ROUTING
- Supports IP/TCP/UDP/ARP/ICMP/IGMP protocols
- IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453)
- IP multicast and IGMP proxy (RFC1112/2236)
- Network address translation (NAT/PAT) (RFC1631)
- NAT ALGs for ICQ/Netmeeting/MSN/Yahoo Messenger
- DNS relay and caching (RFC1034/1035)
- DHCP server, client and relay (RFC2131/2132)

BRIDGING
- IEEE 802.1D transparent learning bridge
- IEEE 802.1q VLAN   • Port-based VLAN
- Spanning tree protocol

SECURITY
- DMZ host/Multi-DMZ/Multi-NAT function
- Virtual server mapping (RFC1631)
- VPN pass-through for PPTP/L2TP/IPSec tunneling
- Natural NAT firewall
- Advanced Stateful packet inspection (SPI) firewall
- Application level gateway for URL and keyword blocking
- User access control: deny certain PCs access to Internet service

MANAGEMENT
- Easy-to-use web-based GUI for quick setup, configuration and management
- Menu-driven interface/Command-line interface (CLI) for local console and Telnet access
- Password protected management and access control list for administration
- SNMP management SNMPv1/SNMPv2 (RFC1157/1901/1905) agent & MIB II (RFC1213/1493)
- Software upgrade via web-browser/TFTP server

ATM
- Up to 8 PVCs   • OAM F5 AIS/RDI and loopback
- AAL5

ATM QOS
- UBR (Unspecified bit rate)   • CBR (Constant bit rate)
- VBR-rt (Variable bit rate real-time)
- VBR-nrt (Variable bit rate non-real-time)

AAL5 ENCAPSULATION
- VC multiplexing and SNAP/LLC
- Ethernet over ATM (RFC 2684/1483)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577) PPP
- PPPoE for fixed & dynamic IP (RFC 2516)
- PPP over ATM for fixed and dynamic IP (RFC 2364)
- User authentication with PAP/CHAP/MS-CHAP

WAN INTERFACE
- SHDSL: ITU-T G.991.2 (Annex A, Annex B)
- Encoding scheme: 16-TCPAM
- Data Rate (2-wire mode): N x 64Kbps (N=0~36, 0 for adaptive)
- Data Rate (4-wire mode): N x 128kbps (N=0~36, 0 for adaptive)
- Impedance: 135 ohms

LAN INTERFACE
- 4-ports switching hub
- 10/100 Base-T auto-sensing and auto-negotiation
- Auto-MDIX

HARDWARE INTERFACE
- WAN: RJ-11   • LAN: RJ-45 x 4
- Console: RS232 female   • RST: Reset button for factory default

INDICATORS
- General: PWR   • WAN: LNK, ACT
- LAN: 1, 2, 3, 4   • SHDSL: ALM

PHYSICAL/ELECTRICAL
- Dimensions: 18.7 x 3.3 x 14.5cm (WxHxD)
- Power: 100~240VAC (via power adapter)
- Power consumption: 9 watts max
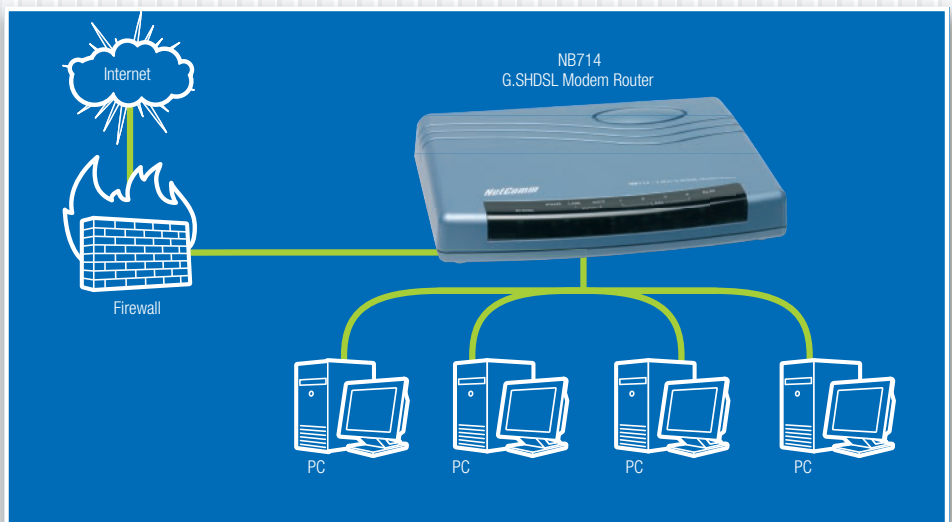- Temperature: 0~45ºC
- Humidity: 0%~95%RH (non-condensing)

MEMORY
- 2MB Flash Memory, 8MB SDRAM

Key Features:

- ⊘ Built-In advanced SPI firewall
- ⊘ Four 10/100Mbps Auto-negotiation and Auto-MDIX switching ports for flexible LAN connectivity
- ⊘ DMZ host/Multi-DMZ/Multi-NAT enables multiple workstations on the LAN to access the Internet
- ⊘ Full ATM protocol stack implementation over SHDSL
- ⊘ PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- ⊘ SNMP management with SNMPv1/SNMPv2 agent and MIB II
- ⊘ Enhancements and new features are available via Internet software upgrade
- ⊘ 3-YEAR WARRANTY WHEN YOU REGISTER ONLINE
  1 year warranty out of the box. Extra 2 years FREE with online registration at www.netcomm.com.au
  (Conditional upon online registration

PACKAGE CONTENTS
- NB74 (2-wire/4-wire) G.SHDSL Modem Router
- 9V DC 1.0 Amp power supply
- RS232 Console Cable
- RJ11 line connection cable
- RJ45 10/100 Ethernet cable
- User Guide CD

NB714
G.SHDSL Modem Router

Internet

Firewall

PC   PC   PC   PC

Your NetComm dealer: