NetComm ®

ADSL Integrated Gateway
with Wireless

ADSL Modem, Wireless AP, Firewall & VPN Router

Multiple VPN Tunnels

Supports up to 253 users

11g-54Mbps WIRELESS

Website Access Control

Active Security (SPI) Firewall

All you need to set up a state-of-the-art wireless and wired network

The NB5580W is an intelligent ADSL solution designed for today's busy SMB or Home office wanting a robust, simple to install and configure All-In-One ADSL sharing solution. Not only can the NB5580W share an internet service with both wired and/or wireless clients, the NB5580W also makes direct communication between wired and wireless services efficient and secure.

Complete with an integrated ADSL modem, 54Mbps Wireless Access Point, Advanced SPI-DoS Firewall, Multiple VPN end-point tunnels and a 4-port Ethernet switch, you can bring your network up to the latest in speed, flexibility and security – all in one device.

KEY FEATURES

- Integrated 54Mbps Wireless Access Point (802.11g/b compatible)
- Wireless Encryption – WEP 64bit & 128bit, upgradeable to WPA
- SSID Wireless Beacon – Enable / Disable
- Integrated ADSL Modem supports – Auto, G.DMT, G.LITE, ANSI T1.413
- Supports PPPoE, PPPoA, Static & Dynamic IP, Classical IP & Bridge using LLC Encapsulation
- Active Firewall featuring Stateful Packet Inspection (SPI) and prevention of DoS attack
- Network Address Translation (NAT max 1000 simultaneous connections)
- 5 Integrated VPN Tunnel End points
- Multi-session VPN Pass-through or NAT Traversal (PPTP & IPSec)
- Universal Plug and Play – allows Internet Apps to auto configure ports
- Ping Diagnostics (LAN & WAN)
- Trace Route Diagnostics
- Back up & Restore Configuration
- Intruder detection, Traffic & Event Logging – viewable Online
- Logging / Alarms can be sent to Syslog or Email server
- Access Control – filter by IP / MAC / URL keyword

- Access Control – filter Proxy / Java / ActiveX / Cookie
- Access Control – Time of Day filter with exception IP address
- Wireless Access Control – up to 64 allowed MACs
- Dynamic DNS for hosting server on Dynamic Public IP address
- DHCP Server for LAN
- DNS Relay / Forwarding
- Port Range Forwarding (Virtual Server)
- Port Triggering (Special Applications like P2P programs)
- Demilitarised Zone Host (DMZ) & Multi DMZ for hosting Web/Mail servers
- Web-based configuration and administration
- Remote Internet administration (changeable HTTP Port Number)
- SNMP support (4 communities, Enable / Disable)
- Dynamic Routing (RIP 1 & 2, independently control Tx/Rx)
- Static Routing (editable DEST, MASK, GW, HOP, IF)
- Flash Firmware Upgradeable
- 4 Port Ethernet Switch on LAN side
- WAN MAC spoofing (change WAN MAC)
- WAN MTU value setting
- Warranty – 3 years conditional upon registration online

NetComm®

ADSL Integrated Gateway
with Wireless

11g-54Mbps WIRELESS CONNECTIONS

11b-11Mbps WIRELESS CONNECTIONS

ETHERNET CONNECTIONS

3 YEAR WARRANTY*

1 year warranty out of the box.
Extra 2 years **FREE** with online registration
at **www.netcomm.com.au**
*Conditional upon registration online.

PACKAGE CONTENTS

NB5580W ADSL Integrated Gateway
with Wireless

Removable Omni directional
2dBi Antenna

EM1100 ADSL MicroFilter

Cat-5 RJ45 Straight-through
Ethernet Cable

RJ11 ADSL Line Cord

RJ11 to 605 ADSL Line adaptor

Plug Pack 12VDC, 1.0A

Installation Guide

Package Contents Note

SPECIFICATIONS

Transmission Standards
IEEE 802.3 (10BaseT), IEEE 802.3u (100BaseTX),
IEEE 802.11g Wireless

Ports • WAN: One ADSL RJ-11 port
• LAN: Four 10/100 RJ-45 ports – all LAN
ports have auto cross-over detection
• WIRELESS: RP-TNC Female coaxial socket
+ Removable Omni directional 2dBi
Antenna

LED Display • SYSTEM: Power, Diagnostics
• ADSL: Link(sync)/Activity
• WLAN: Enable, Activity
• LAN: Link/Activity, 10Mbps
or 100Mbps

Protocols
• LAN: TCP/IP, UDP, ARP, RARP, ICMP, NAT, DHCP,
RIP, SNMP, PPTP/L2TP/PPPoE Pass through,
UPnP
• WAN: PPPoE (static or Dynamic IP), PPPoA (Static
or Dynamic IP, LLC/VC), CHAP/PAP, Static &
Dynamic IP, Classical IP & Bridge using LLC
• WIRELESS: 802.11g & 802.11b, TCP/IP, UDP,
WEP 64/128 bit. Upgradeable to WPA

Maximum Users Up to 253 users

Cabling Type UTP Category 5 or better

IP Setting • WAN: DHCP client, Static IP
• LAN: DHCP, Static IP

VPN Endpoints – IPSec
• Maximum tunnels: up to 5
• Local secure group: IP, Subnet or IP range
• Remote secure group: IP, Subnet, IP range, Host
or Any
• Remote security Gateway: IP, FQDN, Any
• Encryption: DES, 3DES or none
• Authentication: MD5, SHA or none
• Authentication method: Pre-shared key
• Key Management: Auto IKE (PFS or none) or
Manual (Encry, Auth, In-SPI,
Out SPI)

VPN Pass-through (NAT traversal)
• IPSec Pass-through enable/disable
• PPTP Pass-through enable/disable
• Concurrent sessions: up to 50 dependent on data

Firewall & Security
• Prevent attack: DoS, DDoS, Ping of Death, LAND,
IP spoofing, SYN flood, IP Smurfing.
• Stateful packet inspection (check inbound against
outbound)
• NAT – Hide internal IP address (max 1000
concurrent connections)
• ACL Filter: IP Source/Dest, MAC, URL keywords.
• Firewall Filter: Proxy, Active X, Java /script,
Cookies, Time of Day/Week

SPECIFICATIONS

Management
• Web-based configuration
• Admin Password login
• Fault tolerant TFTP upgradeable firmware
• Reset button or Factory default reset

• SNMPInbound Routing
• Special Application (Port Triggering)
• Port Forwarding
• Universal Plug and Play
• DMZ host / Multi DMZ
• Dynamic DNS

LAN Routing
• Dynamic (RIP 1 & 2, independent Tx / Rx)
• Static (editable DEST, MASK, GW, HOP, IF)

ADSL Modem
• ADSL Modulation Standards – Auto, G.DMT, G.LITE,
ANSI T1.413
• Maximum receive data rate – 8Mbps.
• Maximum transmit data rate – 832Kbps.

Wireless
• 802.11g standard
• 802.11b standard (backward compatible)
• Auto/manual data rates of 54, 48, 36, 24, 18, 12, 11,
9, 6, 5.5, 2, 1 Mbps
• WEP 64/128bit with Pass phrase generator
(Upgradeable to WPA)
• MAC address Filtering
(Enable/Disable, Specify up to 64 MACs)
• Australia/European Channels (1-13)
• SSID beacon Enable/Disable
• Beacon Interval (editable in 100ms interval)
• RTS Threshold (256 ~ 2432)
• Fragmentation Threshold (256 ~ 2346)
• DTIM Interval (1 ~ 65535)
• Preamble (Long, Short, Dynamic)
• Authentication (Open System, Shared Key, Both)

Hardware
• CPU: Samsung S3C252510 (ARM9 166Mhz)
• ADSL: ST/Alcatel MTC-20170 (Annex A)
• Flash: 2Mbytes
• RAM: 8Mbytes SDRAM
• One Reset or Factory defaults button

Environmental
• Operating Temperature: 0 ~ 45°C
• Storage Temperature: -20 ~ 60°C
• Humidity: 0 ~ 90% non-condensing

Certifications	A-Tick (N367)
Dimensions	150 (L) x 190 (W) x 39 (H) mm
Power External	DC 12V (max 1 Amp)
Casing	Desktop / Wall mountable

System Requirements
Operating system independent. Ideal for Windows®
Macintosh, Linux & TCP/IP systems

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communications and networking
solutions provider. For more
information on this and other
NetComm products, please visit
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