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 Endpoints
- 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

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**SPECIFICATIONS**

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

**Ports**
- **WAN**: One ADSL RJ-11 port
- **LAN**: Four RJ-45 ports (all supports auto cross-over detection)
- **Wireless**: RP-TNC Female coaxial socket
- **Removable Omni directional 2dB Antenna**

**LED Display**
- **System**: Power, Diagnostics
- **WAN**: 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 Address), PPPoE (Dynamic)
- **WLAN**: Enable, Activity
- **ADSL**: Link(sync)/Activity

**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 (PSK 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/Des, MAC, URL keywords
- **Firewall Filter**: Proxy, Active x, Java /script, Cookies, Time of Day/Week

**Management**
- Web-based configuration
- Admin Password login
- Fault tolerant TFTP upgradeable firmware
- Reset button or Factory default reset
- **SNMP**
  - Inbound Routing
  - Special Application (Port Triggering)
  - Port Forwarding
  - Universal Plug and Play
  - DMZ Host / Multi DMZ
  - Dynamic DNS

**LAN Routing**
- **Static**: Editable DEST, GW, HOP, IF
- **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, 2, 1 Mbps
- WEP 64/128 bit
- Upgradeable to WPA

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**MAC address Filtering**
- (Enable/Disable, Specify up to 64 MACs)
- **Australia/European Channels**: 1, 6, 11, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54

**SSID beacon**
- Enable/Disable
- **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 S3C25250A (ARM7 66MHz)
- **ADSL**: ST/Alcatel MTC-20170 (Annex A)
- **Flash**: 2MBs
- **RAM**: 8MBs 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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