

PRODUCT DATASHEET

Wireless SOHO Router

NSR-1220

2.4 GHz

802.11 b/g

54 Mbps

NSR-1220 is a 2.4GHz 802.11b/g broadband Wi-Fi router. With leading edge SoC (System-on-Chip) technology, broadband subscribers will experience lightning speed Internet access, easy local connectivity, rich software application and secure network protection. Namely, it's most suited for SOHO users wishing to make best use of their broadband service.



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices with legacy protection
NAT Router	Multiple computer Internet Access, also act as natural firewall
WEP/WPA/WPA2/ IEEE 802.1x support	Securing network from malicious access
DHCP	Simplify network configuration and management
MAC address filtering	Ensures secure network connection
UPnP(Universal Plug and Play)	Friendly to special application e.g. instant messenger, VoIP
Port forwarding	Set up application server (FTP, Web, Email, ...) on LAN
Access control	WLAN-to-WAN access control (allow/disallow), prevent users from access unwanted content
Firewall	Prevent malicious access from Internet
DoS (Denial of Service) protection	Prevent from well-known DoS attack
Built-in 4-port Switch automatically detects cable type	Easy local connectivity
Web-based configuration	Simple and intuitive network management
Firmware change via the Web-based configuration screen	Allow easy upgrade/restore/dump system configuration via web interface
System log	Logging critical event according to network manager's criteria

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

12/13/2006

Technical Specifications

Standards

IEEE802.11b/g, IEEE802.1x,
IEEE802.3, IEEE802.3u

Wi-Fi data speed

IEEE 802.11b: 11/5.5/2/1Mbps
IEEE 802.11g:
54/48/36/24/18/12/9/6Mbps

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Power Adapter:
Input: 120VAC 60Hz 20 W
Output: DC 12V / 1A

Status LEDs

4*LAN : Link/Activity
WLAN : Link/Activity
Power : On/Off
Internet : On/Off/Activity

Regulation Certifications

FCC Part 15/UL, ETSI
300/328/CE

RF Information

Frequency Band

2.400-2.497GHz (Japan Band)
2.400-2.483GHz (North
America, Europe Band)
2.455-2.475GHz (Spand Band)
2.446-2.483GHz (France Band)

Media Access Protocol

Carrier Sense Multiple Access
with Collision Avoidance
(CSMA/CA)

Modulation Technology

Orthogonal Frequency
Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels

11 for North America, 14 for
Japan, 13 for Europe,

Receive Sensitivity (Typical)

-86dBm @ 1Mbps
-68dBm @ 54Mbps

Available transmit power

(Typical)

2.412~2.472G(IEEE802.11g)

16 dBm min. @6 ~ 54Mbps

2.412~2.472G(IEEE802.11b)

21 dBm. @1~11Mbps

Antenna Connector

Dipole antenna with reverse SMA
connector

Networking

Operation Mode

AP/Router

Interface

LAN: Four 10/100Mbps Ethernet
(RJ-45); WAN: One 10/100Mbps
Ethernet (RJ-45); WLAN:
802.11b/g air interface

Security

- IEEE802.1x Authenticator
/RADIUS Client
(EAPMD5/TLS/TTLS) Support
in AP Mode
- MAC address filtering

Network Protocol

NAT/PAT
Internet connection management:
Fixed IP/DHCP/PPPoE/PPTP
DHCP (server/client)
HTTP
UPnP
DDNS (Dynamic DNS)
PPTP/L2TP/IPsec (pass-thru)

Management

Web-based configuration (HTTP)

Firmware Upgrade

Upgrade firmware via web-
browser

Physical

Dimensions (HxWxD)

16.7x10.8x2.5cm

Environmental

Temperature Range

Operating: 0°C to 50°C (14F
to 122F)

Storage: -40°C to 70°C (-40F
to 158F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

Device unit
Power Adapter
One CD-ROM with User Manual
Dipole Antenna

System requirement

WAN: Broadband (cable, DSL)
Internet service and modem with
Ethernet connection

LAN: 2.4 GHz 802.11 b/g
wireless adapter. Alternatively, an
Ethernet adapter and cable for
each computer

Related Product(s)

11a/b/g High-power Wireless
USB Adapter

NUB-362/362 EXT (802.11b/g)

NUB-862 (802.11a/b/g)

NUB-8301 (802.11a/b/g)

11b High-power Client Bridge
2611CB3+(Deluxe)

Indoor AP-Client

NCB-3220 (802.11b/g)

NCB-8610 (802.11a/b/g)

Outdoor AP-Client

NOC-3220 Series (802.11b/g)

NOC-8610 Series

(802.11a/b/g)

Web browser with Java installed
(Internet Explorer5.5 or later,
Netscape Navigator6.1 or above,
Mozzila Firefox 1.5 and above)

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