



FriendlyNET® FR1104-G

Cable/DSL 802.11g Wireless Firewall Router
With Integrated 4-Port 10/100 Switch



Enjoy the freedom of sharing your Internet connection—without wires. Megapixel photos, streaming video—and even everyday emails with large attachments move faster through the FriendlyNET wireless Internet router.

Easy to Install

Everything you need to share your cable/DSL Internet connection is included with your FriendlyNET router. From your favorite web browser, follow the on-screen wizard to customize the router for your installation. The router even supports Microsoft Xbox and MSN Messenger applications that require UPnP for dynamic network configurations.

Business-Class Security

To protect your wired and wireless networks from unauthorized access, the FriendlyNET router supports advanced security standards: packet-filtering firewall, 256-bit WEP encryption, stealth SSID, Wi-Fi Protected Access (WPA) and 802.1X RADIUS authentication. For an extra measure of protection, the router can also limit access to only registered computers using hardware-based (MAC) security—the same technology used on Asanté's high-end IntraCore switches for universities and enterprise networks.

Award-Winning Design

With numerous international awards and accolades, Asante has consistently delivered world-class features in all of its products. Our third generation router provides higher levels of security, reliability and performance—all at an affordable price.

SPECIFICATIONS

Overview

LAN:	4 x 10/100 Mbps Fast Ethernet with Auto-Uplink (100BaseTX, 10BaseT): RJ-45 connector
Wireless:	54 Mbps (IEEE 802.11g), 22 Mbps (TI 802.11b+) and 11 Mbps (IEEE 802.11b)
Internet:	10/100 Mbps Fast Ethernet with Auto-Uplink (100BaseTX, 10BaseT): RJ-45 connector
Status Indicators:	Power, Status, Speed, Link/Activity (per port), Internet and Wireless
Wireless Antenna:	Single 4 dBm, upgradeable (uses RP-SMA connector)

Software

Setup:	Wizard guides you through basic settings required for your installation
Administration:	Configure locally or remotely from any popular web browser
Remote Administration:	Allow a trusted administrator to change settings via Internet
Firmware:	Upgradeable via web browser or Windows application
Device Status:	Router IP address, LAN MAC address, WAN MAC address and firmware version
Supported WAN Types:	Dynamic IP address (default), static IP, PPPoE, PPPTP and dynamic for Road Runner/Telstra BigPond
Virtual Private Network:	VPN pass through for IPSec, PPTP and L2TP
Dynamic DNS:	Supports dyndns, TZO and dhs
Routing:	Network address translation (NAT), static and dynamic routing (RIP 1/2) tables
Advanced Features:	Wake-on-LAN (WOL) management and SNMP (v1 and 2c)

Network Security Settings

Log:	Records all intrusion attempts and activities into on-screen log, syslog and email alert
Firewall:	Schedule inbound/outbound packet filter, domain filters and keyword/URL blocking
MAC Address Control:	Set access for different users and assign IP address to a specific MAC address
Miscellaneous:	Discard ping from WAN, denial of service protection, ping device, DMZ, virtual servers and time server

Wireless Settings

Basic:	Network ID (SSID), channel, 64- and 128-bit WEP encryption
Advanced:	256-bit WEP encryption, hide SSID, WPA (with RADIUS server or pre-shared key)*
Authentication:	802.1X with 64/128-bit key for RADIUS server
Frequency:	2.412-2.497 GHz ISM frequency band
Channels:	USA and Canada (1-11), Europe (1-11), Japan (1-11), Spain (10-11), France (10-11)
Modulation Techniques:	802.11b: CCK (11, 5.5 Mbps), DQSP (2 Mbps) and DBPSX (1 Mbps) 802.11g: OFDM (54 Mbps)
Typical Coverage:	802.11b: Indoor up to 50 M at 11 Mbps; outdoor up to 130 M at 11Mbps 802.11g: Indoor up to 20 M at 54 Mbps; outdoor up to 50 M at 54 Mbps

Performance

Microprocessor:	32-bit embedded RISC with integrated 8 KB cache
Internet:	10/100 Mbps
LAN:	10/100 Mbps

System Requirements

Microsoft:	Windows 95/98/Me, NT/2000/XP and Xbox
Apple:	Mac OS 8, 9 and X
Network Interface:	10/100 Fast Ethernet or 802.11b/g adapter
Web Browser:	Internet Explorer (v5 and later), Netscape (v5 and later), Safari (v1 and later)

Applications Interoperability

Microsoft:	Universal Plug-and-Play (UPnP), MSN Messenger and NetMeeting
Apple:	QuickTime; AppleTalk*
Messaging:	H.323, AOL Instant Messenger, ICQ and mIRC
Application Tunnels:	User-definable application-sensing tunnel
Others:	RealPlayer, Dialpad, Quake, Half-Life and Star Craft Unreal Tournament

* Requires G1.1 firmware (free download from asante.com website)

Standards Compliance:

Network:	IEEE 802.3u Fast Ethernet over 2 pairs of UTP Category 5 (100BaseTX) IEEE 802.3 Ethernet over 2 pairs of UTP Category 3 (10BaseT) IEEE 802.11b (up to 11 Mbps) IEEE 802.11g (up to 54 Mbps)
Network Protocols:	TCP/IP, CSMA/CA with ACK
Regulatory:	FCC Class B, CE Mark

Physical

Dimensions (W x H):	7.9 x 5.9 x 1.7 inches (201 x 151 x 44 mm)
Weight:	About 1.1 pounds (0.5 Kg)
Power:	5 VDC (external power module included)
Operating Temperature:	32° to 104° F (0° to 40° C)
Relative Humidity:	10% to 90% non-condensing

Support

Technical Support:	24-hour support via web and ftp. 2-year email and telephone support
Product Warranty:	2-year product warranty covers defects in manufacturing and workmanship

Packing List

Product:	FR1104-G router
Localized Power:	5 VDC, 2.0 A power module
Cable:	10/100 Mbps Fast Ethernet, Category 5, about 5 feet (1.5 meters)
Documentation:	Quick Start Guide
CD-ROM:	Utilities, User's Guide and other documentation

Recommended Accessories

802.11g Wireless Adapters:	AL5402-XG, AL5403-XG, AL5410-G
802.11b Wireless Adapters:	AL1011-DP, AL1211-DP, AL1511 AL1611, AL2011, AL3011

ORDERING INFORMATION

Model Name*	Description
FR1104-G	Cable/DSL 802.11g Wireless Firewall Router with Integrated 4-Port 10/100 Switch

* For international models, please refer to the Asante price list.



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