level one

ADSL2+ Modem Router w/ QoS

FBR-1461

H/W Version: 2

Robust and Versatile, all-in-one device

The LevelOne FBR-1461 is a powerful all-purpose device that acts as an ADSL2/2+ modem, NAT firewall, router, and 4-port 10/100 Mbps LAN switch to help you serve and protect your network's sensitive data. FBR-1461 is a feature-rich device allowing you to connect to the Internet world with ease.

ADSL2/2+ Modem

The modem functionality of the FBR-1461 converts the high-frequency analog tones sent by your ISP (Internet Service Provider) into the digital data (1s and 0s) your computer needs. It complies with the ADSL standards set by the ITU (International Telecommunications Union).

NAT Firewall

Once your data enters the FBR-1461, the built-in SPI (Stateful Packet Inspection) reads and verifies that your packets are legitimate. This prevents unauthorized electronic access (spoofing, DOS attacks, or other exploits) of your network data.

Router

The FBR-1461's router function passes all info to the appropriate connected devices. This adds an extra layer of control that makes sure all Internet packets have a source IP address and a destination IP address.

4-Port 10/100 Mbps LAN Switch

Now that the data has been decoded, inspected, and told where in your local network to go, the FBR-1416's built-in 4-port switch allows the user to connect multiple devices to create a large and powerful data network at Fast Ethernet speeds of 10/100 Mbps.

Easy to Use

The FBR-1416 brings all of these powerful networking functions into a single device that is also easy to setup. It comes with an Easy-Sign-On Wizard that also automatically scans your ADSL settings so your network operates at maximum performance*.

*Automatic ADSL line scanning depends on the equipment and settings used by your ISP. LevelOne cannot guarantee that the correct ADSL settings will be obtained.

1. LED Indicator Panel
2. Power Port
3. Reset Button
4. LAN Interface
5. ADSL Interface

1   2 3   4   5

Key Features

- ADSL2+ Modem Router for High-Speed Internet Access, up to 24Mbps
- Robust Firewall Security for Network Protection
- UPnP, DDNS and VPN Pass Through
- Rich Quality of Service (QoS) Functions
- Integrated 4-port Ethernet Switch

Works Well With

WAP-3000
11g Wireless AP

FCS-0010
10/100Mbps Network Camera

Technical Specification

LAN-Interface
4x 10/100 Mbps Auto-MDIX RJ-45 Port

ADSL-Interface
1x RJ11 Port

Data Rates:
Downstream: Up to 24Mbps
Upstream: Up to 3.5Mbps

ADSL Standards
Multi-Mode, ANSI T1.413 Issue2
ITU-T G.992.1 (G.dmt) Annex A/C/I
ITU-T G.992.2 (G.lite) Annex A/C
ITU-T G.994.1 (G.hs)

ADSL2 Compliance
ITU-T G.992.3 (G.dmt.box) Annex A/J/K/L/M
ITU-T G.992.4 (G.lite.bis) Annex A

ADSL2+ Compliance
ITU-T G.992.5 Annex A/L/M

ATM and PPP Protocols
VC and LLC based multiplexing
ATM Adaptation Layer Type 5 (AAL5)
Multiple Protocol over AAL5 (MPoA)
PPP over Ethernet (PPPoE)
PPP over ATM (PPPoA)
OAM F4/F5

Firewall
DoS Detection
NAT Firewall with SPI mode
Virtual Server, DMZ
Schedule-Based MAC, Packet and URL Filtering

QoS Support
Port Number and IP Address Traffic Prioritization
Support DiffServ Approach

Other Features
DDNS Supported, UPnP Supported, NTP Time Server,
VPN Pass-Through (PPTP, IPSec, L2TP)

Firmware Upgrade
Web-based (HTTP)

Management and Configuration
Quick Installation Wizard
Web-Based GUI Configuration
Auto VPI/VCI Detection
Telnet remote and local management
Syslog monitoring
SNMP v3, MIB-I and MIB-II support

Supported Operating Systems
Windows 2000/XP/Vista/Mac OSX/Linux

Power Adapter
DC12V / 1.0A

Operating Temperature
0°C ~ 40°C / 85% Humidity

Storage Temperature
-20°C ~ 70°C / 95% Humidity

Dimensions
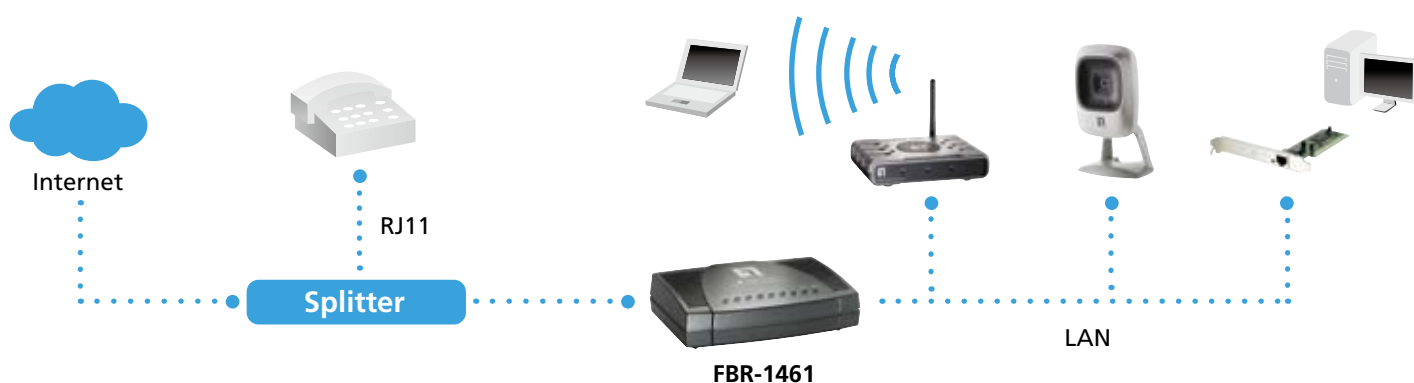132mm(L) * 94mm(W) * 35mm(H)
Wall Mount Brackets

Certifications
CE, FCC

Standards Compliant
IEEE 802.3x, IEEE 802.3, IEEE 802.3u

Product Diagram

Internet   RJ11   Splitter   FBR-1461   LAN

Order Information   **FBR-1461A:** ADSL2+ Modem Router w/ QoS (Annex A)

                             FBR-1461B: ADSL2+ Modem Router w/ QoS (Annex B)

Package Content   FBR-1461, Power Adapter, RJ45 Ethernet LAN Cable, RJ11 ADSL Cable, CD Manual,
Quick Installation Guide