IEEE 802.11n Wireless VPN Router

The PLANET VRT-402N is an 802.11n compliant Wireless VPN Firewall Router designed for users sharing Internet connection to LAN and wireless LAN at the same time.

Wireless Capabilities
With IEEE 802.11n technology backward compatible with 802.11b/g, the VRT-402N supports not only AP mode, but also Bridge (AP disable / Repeater AP Enabled), Universal Repeater and WISP modes. It provides more flexibility for users to establish their wireless network. The 802.11n technology empowers the wireless bandwidth up to 150Mbps in network access.

Secured VPN Connections
The VRT-402N provides complete data security and privacy for access and exchange of the most sensitive data. It makes the wireless LAN connection more secure, flexible, and capable by its full VPN capability that includes built-in IPsec VPN function with DES / 3DES / AES encryption and MD5/SHA-1 authentication, PPTP and L2TP server / client mechanism.

Full Featured NAT Router Support
Furthermore, the VRT-402N integrates user access control and SPI (Stateful Packet Inspection) firewall protection to perform high efficiency and extensive protection for your network. The Virtual Server and DMZ function supported enable you setup your servers in the Intranet and still provide services to the Internet users. Not just for wired Internet connection, when the VRT-402N is in the WISP (Wireless Internet Service Provider) mode, its Wireless Interface will be turned into a WAN connection port making the Internet connection Wirelessly.

KEY FEATURES

ROUTER / NAT FEATURES
- Access Private LAN Servers from the Public Network
- Equipped with four LAN ports (10/100M) and one WAN port (10/100M), Auto-MDI/MDI-X supported
- Supports DHCP Server
- System status monitoring includes Active DHCP Client, Security Log and Device/Connection Status
- Web-Based GUI and Wizard setup for easy configuration
- Remote Management function allows configuration and upgrades from a remote site
- Supported Internet types: Dynamic / Static IP / PPPoE / PPTP / L2TP
- Supports UPnP function

FIREWALL / SECURITY FEATURES
- MAC / IP filter access control, URL blocking; SPI firewall + DoS prevention protection
- Built in NAT firewall
- Predefined / User-defined service database
- Enable/disable VPN pass-through

VPN FEATURES
- Site-to-site / Client-to-VPN gateway connection capability
- IKE Keying Methods: Auto (Pre-shared Key), Manual Keying
- Authentication: MD5/SHA-1
- Encryption: DES/3DES/AES
- Adjustable IKE SA Life time
- PPTP VPN tunnels : 10
- IPsec VPN tunnels : 25

WIRELESS FEATURES
- IEEE 802.11n wireless technology compliant with 802.11b/g standard
- Supports Wi-Fi Protected Setup (WPS)
- Advanced security: 64/128-bit WEP, WPA –TKIP(PSK), WPA2-AES(PSK), 802.1x
- Max. WDS mode link allowed up to 4 sets
- Multiple SSID (Two SSID)and hidden SSID broadcasting
- Multiple operating modes: AP, Bridge, Universal Repeater and WISP

Data Sheet
**Applications**

*Internet Connection with Firewall*

The VRT-402N WAN port can be connected to the Internet through either an xDSL or Cable Modem, and acts as a regular router (NAT disabled and static route) to route the network traffic to a specific destination host. With the assistance of a DDNS client, SOHO users with a dynamic IP may build their own websites and ftp servers.

The VRT-402N provides advanced features including add-on virtual servers, special applications, UPnP and DMZ supports to enable users enjoy the trouble-free Internet communication. The IPSEC VPN also makes the private tunnel over Internet in a secured way toward the business.

**Specification**

<table>
<thead>
<tr>
<th>Product</th>
<th>802.11n VPN Broadband Router</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>VRT-402N</td>
</tr>
<tr>
<td>Camera Specification</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>IEEE 802.11b/g/n</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.3u</td>
</tr>
<tr>
<td>Signal Type</td>
<td>802.11b mode: DSSS</td>
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<tr>
<td></td>
<td>802.11g mode: OFDM</td>
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<tr>
<td></td>
<td>802.11n mode: OFDM, MIMO</td>
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<tr>
<td>Modulation</td>
<td>802.11b: DBPSK, DQPSK, CCK</td>
</tr>
<tr>
<td></td>
<td>802.11g: BPSK, QPSK, 16QAM, 64QAM</td>
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<tr>
<td></td>
<td>802.11n: BPSK, QPSK, 16QAM, 64QAM</td>
</tr>
<tr>
<td>WAN Port</td>
<td>1 x 10/100Base-TX, Auto-MDI/MDI-X</td>
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<tr>
<td>LAN Port</td>
<td>4 x 10/100Base-TX, Auto-MDI/MDI-X</td>
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<tr>
<td>Antenna Connector</td>
<td>1 x Detachable dipole 2dBi Dipole Antenna</td>
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<td>LED Indicators</td>
<td>PWR* 1, WLAN* 1, WAN * 1, LAN * 4</td>
</tr>
<tr>
<td>Output Power</td>
<td>802.11b: 17 dBm</td>
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<tr>
<td></td>
<td>802.11g: 15 dBm</td>
</tr>
<tr>
<td></td>
<td>802.11n: 15 dBm</td>
</tr>
</tbody>
</table>
VRT-402N

Data Sheet

802.11b: 11/5.5/2.5/1Mbps
802.11g: 54/48/36/24/18/12/9/6Mbps
802.11n:

<table>
<thead>
<tr>
<th>MCS Index</th>
<th>HT20 Data rate (Mbps) @ 400ns GI</th>
<th>HT40 Data rate (Mbps) @ 400ns GI</th>
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<tr>
<td>7</td>
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<td>150.0</td>
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</tbody>
</table>

Receiver Sensitivity

802.11n 20/40MHz MCS7, 10% PER, -67±2dBm
54Mbps OFDM, 10% PER, -72±2dBm
11Mbps CCK, 8% PER, -88±2dBm

Software

Router Feature

Access Private LAN Servers from the Public Network
Equipped with four LAN ports (10/100Mbps) and one WAN port (10/100Mbps)
Supported Internet types: Dynamic / Static IP / PPPoE / PPTP / L2TP
802.1D (Spanning Tree Protocol)
DHCP Server / Client
UPnP and DDNS
DMZ and Virtual Server
SNTP
Static Routing

Wireless Feature

802.11n wireless technology compliant with 802.11b/g standard
Supports Wi-Fi Protected Setup (WPS)
Advanced security: 64/128-bit WEP, WPA –TKIP(PSK), WPA2-AES(PSK), 802.1x
Max. WDS mode link allowed up to 4 sets
Multiple SSID (Two SSID) and hidden SSID broadcasting

VPN

Site-to-site / Client-to-VPN gateway connection capability
IKE Keying Methods: Auto (Pre-shared Key), Manual Keying
Authentication: MD5/SHA-1
Encryption: DES/3DES/AES
Adjustable IKE SA Life time
PPTP VPN tunnels : 10
IPsec VPN tunnels : 25

Session

15000

Built-in NAT Firewall
MAC / IP / Port Filtering
Content Filtering
SPI Firewall support
Password protection for system management

Management

Web-Based configuration
System status monitoring includes Active DHCP Client, Security Log and Device / Connection Status
Web-Based GUI and Wizard setup for easy configuration
Remote Management function allows configuration and upgrades from a remote site

ORDERING INFORMATION

VRT-402N
802.11n Wireless VPN / Firewall Router

AVAILABLE MODULES

WNL-9231
802.11n Wireless PCI Adapter

WNAP-1110
802.11n Wireless Access Point

WNR-625 / 626
802.11n Wireless AP / Router (2T2R / 11TR)

WNR-625G / 626G
802.11n Wireless AP / Router HSPA 3G support (2T2R / 11TR)