

# **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 : 10IPsec 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

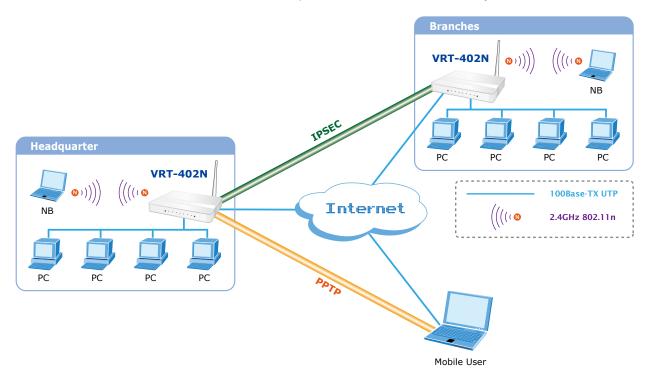


#### APPLICATIONS

## 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**

Dun dund	002 44 v VDN Danadhand Dantan			
Product	802.11n VPN Broadband Router			
Model	VRT-402N			
Camera Specification				
Standard	IEEE 802.11b/g/n			
	IEEE 802.3u			
Signal Type	802.11b mode: DSSS			
	802.11g mode: OFDM			
	802.11n mode: OFDM, MIMO			
Modulation	802.11b: DBPSK, DQPSK, CCK			
	802.11g: BPSK, QPSK, 16QAM, 64QAM			
	802.11n: BPSK, QPSK, 16QAM, 64QAM			
WAN Port	1 x 10/100Base-TX, Auto-MDI/MDI-X			
LAN Port	4 x 10/100Base-TX, Auto-MDI/MDI-X			
Antenna Connector	1 x Detachable dipole 2dBi Dipole Antenna			
LED Indicators	PWR* 1, WLAN* 1, WAN * 1, LAN * 4			
Output Power	802.11b: 17 dBm			
	802.11g: 15 dBm			
	802.11n: 15 dBm			





802.11b: 11/5.5/2/1Mbps

802.11g: 54/48/36/24/18/12/9/6Mbps

	802.11n:	802.11n:				
Data Rate		MCS Index	HT20	HT40		
			Data rate (Mbps) @ 400ns GI			
		0	7.2	15.0		
		1	14.4	30.0		
		2	21.7	45.0		
		3	28.9	60.0		
		4	43.3	90.0		
		5	57.8	120.0		
		6	65.0	135.0		
		7	72.2	150.0		
	802.11n 20/40I	MHz MCS7, 10% PER, -67±2	2dBm			
Receiver Sensitivity		54Mbps OFDM, 10% PER, -72±2dBm				
	11Mbps CCK, 8% PER, -88±2dBm					
Software						
		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 Router Feature UPnP and DDNS

DMZ and Virtual Server SNTP Static Routing

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

Wireless Feature Max. WDS mode link allowed up to 4 sets

Multiple SSID (Two SSID) and hidden SSID broadcasting

Site-to-site / Client-to-VPN gateway connection capability IKE Keying Methods: Auto (Pre-shared Key), Manual Keying

Authentication: MD5/SHA-1

VPN Encryption: DES/3DES/AES Adjustable IKE SA Life time

PPTP VPN tunnels: 10 IPsec VPN tunnels: 25

15000 Session

> Built-in NAT Firewall MAC / IP/ Port Filtering

15000 Content Filtering

SPI Firewall support

Password protection for system management

Web-Based configuration

System status monitoring includes Active DHCP Client, Security Log and Device / Connection Status Management

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-9331	802.11n Wireless PCI Adapter
WNAP-1110	802.11n Wireless Access Point
WNRT-625 / 626	802.11n Wireless AP / Router (2T2R / 1T1R)
WNRT-625G / 626G	802.11n Wireless AP / Router HSPA 3G support (2T2R / 1T1R)