

Product Specification

150Mbps 802.11n Wireless Broadband Router

WNRT-617

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 0.9	2011/01/24	Miki	Draft version release
Version 1.0	2011/02/04		Initial release

Author	Miki	Editor:	Miki
Reviewed by:	Kent, Jay	Approved by:	Tom

1. PRODUCT DESCRIPTION



Multiple Wireless Network Technologies for Greater Access

PLANET Wireless Broadband Router, WNRT-617 features 802.11n radio with 1T1R antenna technology compliant with 802.11b/g/n standards. Compared with general wireless routers, the WNRT-617 offers more powerful and flexible capability for LAN client to access Internet with management functions.

Wide Range of Wireless Security Support

The WNRT-617 supports one WAN port for wired cable or DSL service connection. To secure the wireless communication, the WNRT-617 supports up-to-date encryption, WPA/WPA2-PSK with TKIP/AES. In order to simplify the security settings, the WNRT-617 supports Wi-Fi Protected Setup(WPS) configuration with PBC/PIN type, by just clicking the options and the secure connection between AP and wireless client will be built immediately.

Advanced Firewall Security

The WNRT-617 supports NAT function to allow multiple users to access Internet via a single legal IP. It also provides Virtual Server for LAN PC to act as an application server and offer certain service to the clients on Internet. Furthermore, the SPI (Stateful Packet Inspection) firewall protects your Intranet PCs from unauthorized accesses and many kinds of DoS attacks from the Internet. In the aspect of firewall, the WNRT-617 supplies IP-based and MAC-based access control, and prevent possible hackers attack.

Easy Setup

The WNRT-617 provides a total solution for the home and the SOHO users. With the MIMO 11n wireless technology, it's easy to combine the wireless devices with existing wired network.

2. PRODUCT FEATURES

- **Industrial Compliant Wireless LAN & LAN**
 - Compliant with IEEE 802.11n wireless technology capable of up to 150Mbps data rate
 - Backward compatible with 802.11b/g standard
 - Equipped with four LAN ports (10/100Mbps) and one WAN port (10/100Mbps), Auto MDI/MDI-X supported

- **Fixed-network Broadband Router**
 - Supported Internet types: Dynamic IP/ Static IP / PPPoE / Telstra Big Pond / L2TP / PPTP
 - Support Static Routing, WDS, UPnP, Dynamic DNS

- **Secure Network Connection**
 - Support **Wi-Fi Protected Setup** (WPS)
 - Advanced security: 64/128/152-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK(TKIP/AES), 802.1x
 - Support NAT firewall features, with SPI function to protect against DoS attacks.
 - Support IP / Protocol-based access control and MAC Filtering

- **Advanced Networking function for Specific Application**
 - Support multiple sessions IPSec, L2TP and PPTP VPN pass-through
 - Support Virtual Server, ALG, DMZ and UPnP for various networking applications
 - Support DHCP Server

- **Easy to install & Management**
 - Web-based UI for and Quick setup for easy configuration
 - Remote Management allows configuration from a remote site
 - System status monitoring includes DHCP Client, System Log

3. PRODUCT SPECIFICATION

3.1 MAIN COMPONENT

CPU & Switch :	Atheros AR7240
MAC, Broadband & Wireless :	Atheros AR9285
RAM :	32 MB DDR
Flash :	4 MB

3.2 FUNCTIONAL SPECIFICATIONS

Product	WNRT-617 150Mbps 802.11n Wireless Broadband Router	
Hardware Specification		
Interface	WAN Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100Mbps Auto MDI/MDI-X RJ45 port
Antenna	Gain:	1 x Fixed 5dBi Antenna
	Orientation:	Omni-directional
Power Button	Power On/Off button at rear panel	
WPS / Reset Button	WPS / Reset button at front panel	
	Push for above 5 seconds to reset to factory default setting	
LED Indicators	PWR, SYS, WLAN, LAN x 4, WAN, WPS with green light	
Material	Plastic	
Wireless interface Specification		
Standard	Compliance with IEEE 802.11b/g/n	
Frequency Band	2.4~2.4835GHz	
Extend Frequency	DSSS	
Modulation Type	DBPSK, DQPSK, QPSK, CCK and OFDM (BPSK/QPSK/16-QAM/ 64-QAM)	
Data Transmission Rates	11n: 135/121.5/108/81/54/40.5/27/13.5Mbps 130/117/104/78/52/39/26/13Mbps 65/58.5/52/39/26/19.5/13/6.5Mbps (Dynamic)	
	11g: 54/48/36/24/18/12/9/6Mbps (Dynamic)	
	11b: 11/5.5/2/1Mbps (Dynamic)	
Transmission Distance	Indoor up to 100m	
	outdoor up to 300m (it is limited to the environment)	
Channel	America/ FCC: 2.414~2.462GHz (11 Channels)	
	Europe/ ETSI: 2.412~2.472GHz (13 Channels)	
	Japan/ TELEC: 2.412~2.484GHz (14 Channels)	
RF Power	High: 18 dBm (max)	
	Middle: 15 dBm	
	Low: 12 dBm	

Receive Sensitivity	130M: -68dBm@10% PER 108M: -68dBm@10% PER 54M: -68dBm@10% PER 11M: -85dBm@8% PER 6M: -88dBm@10% PER 1M: -90dBm@8% PER
Wireless Management Features	
Wireless Operation Mode	AP, WDS (AP+Bridge)
Encryption Security	WEP (64/128/152-bit) encryption security WPA-PSK / WPA2-PSK (TKIP/AES) WPA / WPA2 (TKIP/AES) WPA / WPA2 enterprise mode (802.1x authentication)
Wireless Security	Provide wireless LAN ACL (Access Control List) filtering Wireless MAC address filtering Support WPS(WIFI Protected Setup) Enable/Disable SSID Broadcast
Wireless Advanced	Support 802.11e WMM (Wi-Fi Multimedia) Support Wireless Roaming Provide Wireless Statistics
Router Features	
Internet Connection Type	Shares data and Internet access for users, supporting following internet access: <ul style="list-style-type: none"> ■ PPPoE ■ Dynamic IP ■ Static IP ■ Telstra Big Pond ■ PPTP ■ L2TP
Firewall	NAT firewall with SPI (Stateful Packet Inspection) NAT with ALG (Application Layer Gateway) Built-in NAT server supporting Virtual Server, and DMZ Built-in firewall with IP address filtering, Domain Name filtering, and MAC address filtering Support ICMP-FLOOD, UDP-FLOOD, TCP-SYN-FLOOD filter, DoS protection
Routing Protocol	Static Routing
VPN Pass-through	PPTP, L2TP, IPSec
LAN	Built-in DHCP server supporting static IP address distributing Support UPnP, Dynamic DNS Support Flow Statistics IP & MAC Binding IP / Protocol-based Bandwidth Control

	Session Number: Max 5210
System Management	Web-based (HTTP) management interface
	Remote management
	SNTP time synchronize
	Easy firmware upgrade
	System Log supports auto mail and save to local host
OS Compatibility	Windows 7(32-bit/64-bit)
	Windows Vista (32-bit/64-bit)
	Windows XP
	Mac OS X 10.4 and higher
Standards Conformance	
IEEE Standards	IEEE 802.11n (1T1R, up to 150Mbps)
	IEEE 802.11g
	IEEE 802.11b
	IEEE 802.11i
	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3x Flow Control
Others Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP

3.3 Physical Specification

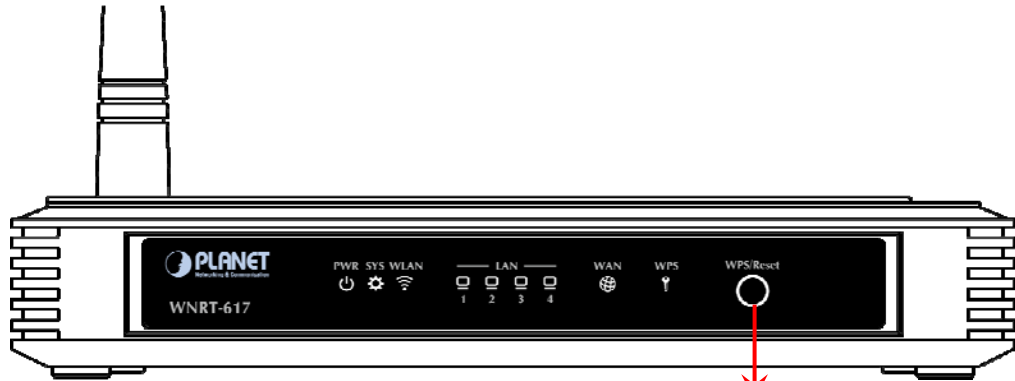
Dimension

174 x 110 x 23 mm (W x D x H)

Weight

200g

Front Panel

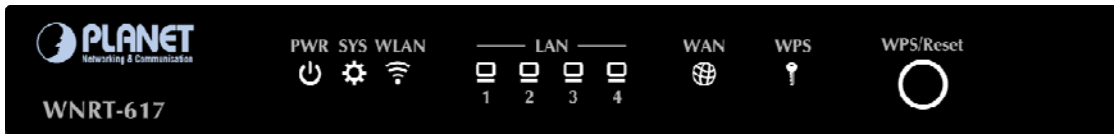


WPS / Reset Button

WPS/Reset Button

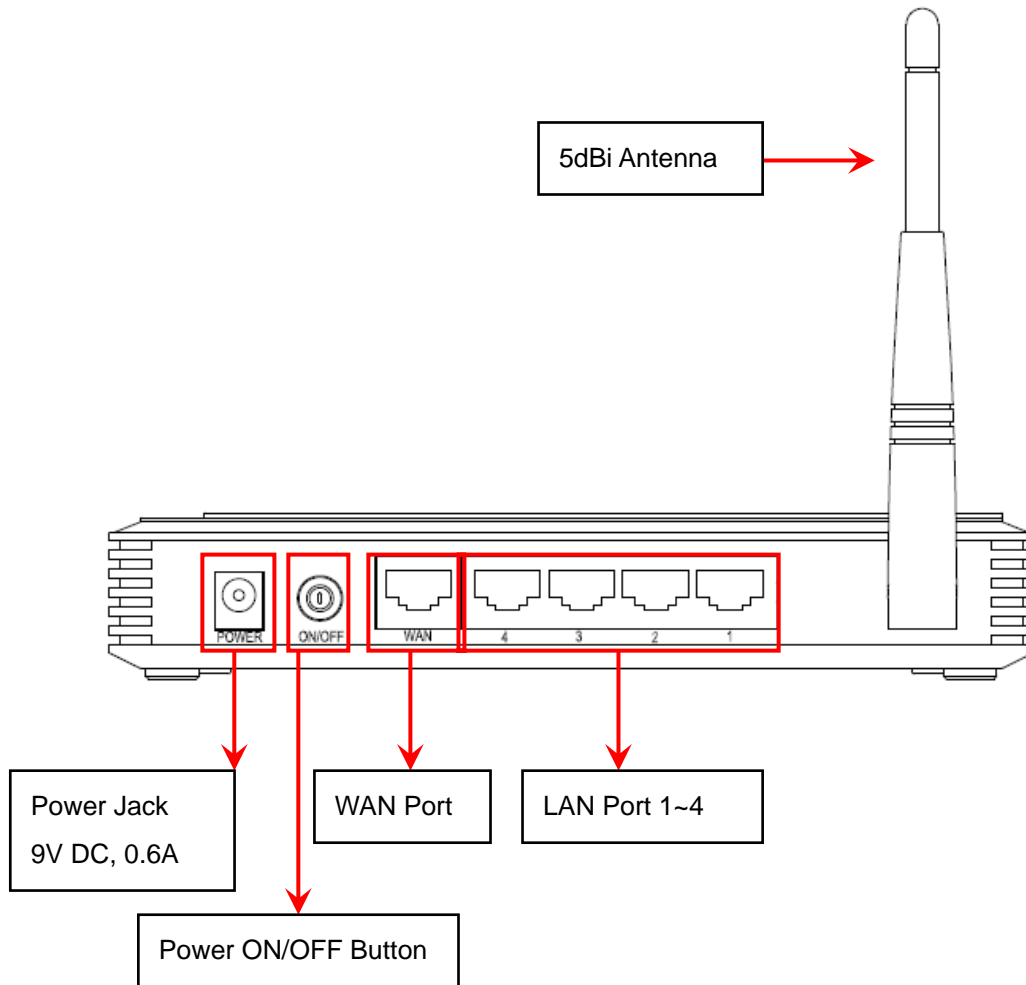
ACTIVE	TIME
WPS	Press and hold the button less than 5 seconds for WPS configuration
Reset	Press and hold the button more than 8 seconds to the factory default setting

LED definition



LED	COLOR	STATE	FUNCTION
PWR	Green	On	Device power on
		Off	Device power off
SYS	Green	On	Device is initializing
		Slow Flash	The device is working properly
		Quick Flash	Press and hold the reset button longer than 5 seconds
WLAN	Green	Flash	The Wireless function is enabled.
		Off	The Wireless function is disabled.
LAN 1-4	Green	On	Link is established
		Flash	Packets are transmitting or receiving
		Off	LAN port is not connected
WAN	Green	On	Link is established
		Flash	Packets are transmitting or receiving
		Off	WAN port is not connected
WPS	Green	Slow Flash	A wireless device is connecting to the network by WPS function. This process will last in the first 2 minutes.
		On	A wireless device has been successfully added to the network by WPS function.
		Quick Flash	A wireless device failed to be added to the network by WPS function.

Rear Panel



3.4 Environmental Specification

Temperature

Operating: 0 ~ 40 degree C
 Storage: -40 ~ 70 degree C

Humidity

Operating: 10 ~ 90% (Non-Condensing)
 Storage: 5 ~ 90% (Non-Condensing)

3.5 ELECTRICAL SPECIFICATION

Input Voltage:	9V DC	
Power Consumption:	5.2 watts maximum	
Power Adapter:	Power Input	100~240V/50-60Hz Switching Power Supply
	Power Output	9VDC / 0.6A
	Regulator	CE, RoHS

3.6 Regulatory Compliance

CE, FCC, Compliant with RoHS

3.7 BASIC PACKAGING

- WNRT-617 x 1
- Power Adapter x 1
- CD (Includes User's Manual) x 1
- Quick Installation Guide x 1
- Ethernet Cable x 1

3.8 PACKAGING INFORMATION

Dimension: 260 x 180 x 70 mm (W x D x H)
Weight: 540g (gross weight)
20 pcs in one carton