750Mbps 802.11ac Wireless Broadband Router

IEEE Compliant Wireless LAN & Wired LAN

- Compliant with IEEE 802.11a/b/g/n/ac dual band (2.4G & 5G) wireless technology capable of up to 300 + 433Mbps data rate
- Auto MDI/MDI-X supported

Fixed-network Broadband Router

- Supports WAN connection types: DHCP / Static IP / PPPoE / PPTP / L2TP
- Supports Dynamic DNS and DHCP Server

Secure Network Connection

- Supports Wi-Fi Protected Setup (WPS)
- Advanced security: 64/128-bit WEP, WPA / WPA2 and WPA-PSK / WPA2-PSK (TKIP/AES encryption)
- Supports NAT firewall, IP / Port / URL-based access control and MAC address filtering
- Supports dual-SSID to allow users to access different networks through one single AP

Advanced Networking Function for Specific Application

- Supports Bandwidth Control (QoS) based on different local IP addresses
- Supports NTP, Virtual Server, UPnP and DMZ for various networking applications
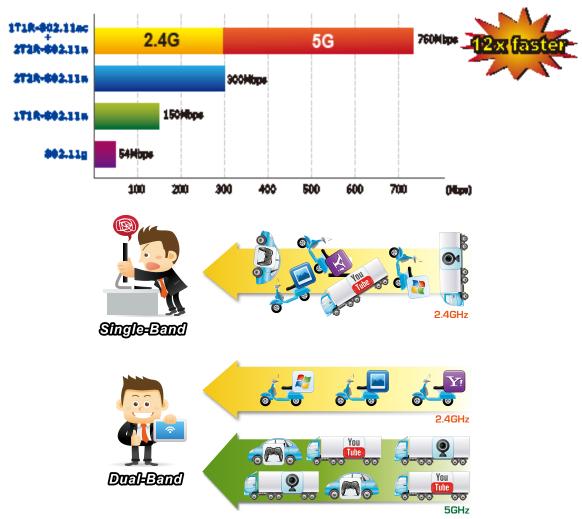
Easy Installation and Management

- User-friendly Web-based UI with On-line Help
- Remote Management allows configuration from a remote site
- System status monitoring includes DHCP Client List and System Log

Amazing, Next-Generation Wireless High-Speed Connection

PLANET WDRT-750AC Wireless Broadband Router supports IEEE 802.11a/b/g/n/ac standard and dual band technology, meaning it can provide the wireless speed up to 433Mbps in the 5GHz frequency band and 300Mbps in the 2.4GHz frequency band at the same time, which is 12 times faster than that of the traditional 11g access point. Compared with the general wireless routers, the WDRT-750AC offers faster transmission speed and more convenient method to enable or disable wireless signal.

Online Game
Video Conference
HD Video/Audio Stream
File Download
Mail
Web

5GHz *a/n/ac*
2.4GHz *b/g/n*

Low Interference
HD Video Streaming & Conferencing

High Compatibility
Web & File Sharing

450Mbps   750Mbps   300Mbps

2.4G and 5G Simultaneous Dual-Band Wireless Connectivity

Since there are more and more wireless applications and electric devices using the radio frequency of 2.4GHz, the wireless channel of 2.4GHz has been already too crowded for clients to enjoy the high-speed wireless connection. In order to avoid the wireless interference between each other, the WDRT-750AC provides users with the radio frequency of 5GHz for watching HD videos or playing online games additionally. Meanwhile, it enables other users to surf the Internet via the original radio frequency of 2.4 GHz. The WDRT-750AC is just like 2 totally independent access points in one device for you.

Powerful Firewall and Complete Access Control Functions

The WDRT-750AC supports NAT function allowing multiple users to access Internet via a single legal IP. It also provides Virtual Server for the specific LAN PC to act as an application server and offer certain service to the clients on the Internet. In addition, the powerful firewall offered by the WDRT-750AC protects your Intranet clients from unauthorized accesses and various kinds of DoS attacks from the Internet. In the aspect of firewall, the WDRT-750AC supplies IP-based and MAC-based access control to prevent possible hackers attack.

Full Support of Wireless Security Encryption

To secure the wireless communication, the WDRT-750AC supports up-to-date encryption technology, WPA / WPA2 and WPA-PSK / WPA2-PSK with TKIP/AES. The WDRT-750AC supports Wi-Fi Protected Setup (WPS) configuration with PBC/PIN methods to simplify the wireless security settings. By just clicking the WPS button, the secure connection between the wireless AP and wireless client will be built immediately

WPS (Wi-Fi Protected Setup)
Quick & Easy Wireless Connection

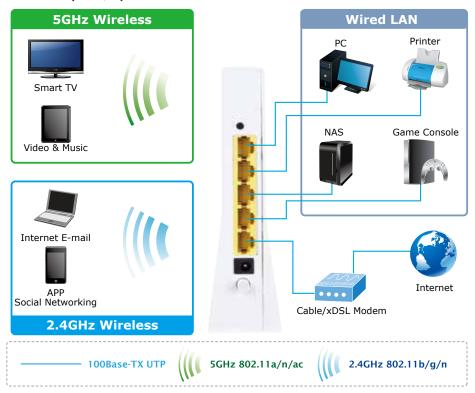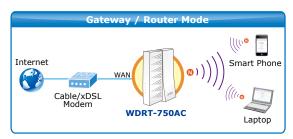# Applications

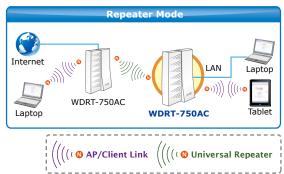## Experience the Real High-Speed Wireless Connection

PLANET WDRT-750AC delivers dual band technology to avoid signal interference and ensure the best Wi-Fi performance. It allows you to check e-mail and surf the Internet via the 2.4GHz band and simultaneously watch high-definition (HD) video or any other multimedia applications via the 5GHz band. Furthermore, the WDRT-750AC supports wireless transmission rate up to 433Mbps in the 5GHz frequency band and 300Mbps in the 2.4GHz frequency band for various wireless applications. With its outstanding stability of high-speed wireless transmission, the WDRT-750AC can provide users excellent multimedia streaming through their mobile devices anywhere, anytime.

Easy Setup for Multiple Wireless Modes

The WDRT-750AC supports multiple wireless modes including AP and Repeater for different network applications. Furthermore, with the built-in Quick Setup function, users can configure the WDRT-750AC quickly through a couple of simple steps. It is so easy to apply the WDRT-750AC to the existing wired network. The WDRT-750AC definitely provides a total network solution for the home and SOHO users.

Specifications

Model	WDRT-750AC	
Hardware Specifications		
Interface	WAN Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ-45 port
	LAN Port:	4 x 10/100Mbps Auto MDI/MDI-X RJ-45 ports (LAN1~4)
Antenna	Gain:	2.4GHz :2 x 2.5dBi PCB Antenna 5GHz: 1 x 3.8dBi Internal Antenna
Reset / WPS Button	Reset / WPS button at rear panel Press for about 10 seconds to reset the device to factory default Press for 1 second to activate WPS function	
LED Indicators	PWR x 1 WLAN (2.4G & 5G) x 2 WAN x 1	
Material	Plastic	
Dimensions (W x D x H)	163 x 100 x 43 mm	
Weight	146g	
Power Requirements	12V DC, 0.5A	
Power Consumption	Maximum of 5 watts	
Wireless Interface Specifications		
Standard	Compliant with IEEE 802.11a/b/g/n/ac	
Frequency Band	Simultaneous 2.4 GHz and 5 GHz	
Modulation Type	DSSS (DBPSK / DQPSK / CCK) OFDM (BPSK / QPSK / 16QAM / 64QAM) MIMO	
Data Rates	2.4GHz / 11n:Up to 300Mbps 5GHz / 11ac:Up to 433Mbps	

Channel	**2.4GHz**
	    America / FCC: 2.412~2.462GHz (11 Channels)
	    Europe / ETSI: 2.412~2.472GHz (13 Channels)
	    Japan / TELEC: 2.412~2.484GHz (14 Channels)
	5GHz
	    5.180~5.240GHz, 5.745~5.825GHz (Up to 9 channels)
	    The actual channels in application will vary depends on the regulation in different regions and countries.	

Channel Width	20/ 40/ 80 MHz	

RF Power / EIRP	**2.4GHz**
	    11b: 17±1dBm
	    11g: 14±1.5dBm
	    11n: 14±1.5dBm
	5GHz
	    11a: 14±1.5dBm
	    11n: 14±1.5dBm
	    11ac: 13±1.5dBm	

Receive Sensitivity	**2.4GHz**
	    11b (11Mbps): -79dBm
	    11g (54Mbps): -72dBm
	    11n (20Mbps) mode: -69dBm
	    11n (40Mbps) mode: -65dBm
	5GHz
	    11a (54Mbps): -72dBm
	    11n (20Mbps) mode: -69dBm
	    11n (40Mbps) mode: -65dBm
	    11ac (20Mbps) mode: -57dBm
	    11ac (40Mbps) mode: -54dBm
	    11ac (80Mbps) mode: -51dBm	

Wireless Management Features	
Wireless Modes	■ Gateway ■ Repeater
Encryption Security	WEP (64/128-bit) WPA / WPA2 WPA-PSK / WPA2-PSK encryption
Wireless Security	Provides Wireless LAN ACL (Access Control List) filtering
	Wireless MAC address filtering
	Supports WPS (WiFi Protected Setup)
Wireless Advanced	Supports Dual-SSID (2.4G & 5G)
Max. Supported Clients	Wire: 254 Wireless: 32
Router Features	
Internet Connection Type	Shares data and Internet access with users, supporting the following internet accesses: ■ DHCP ■ Static IP ■ PPPoE ■ PPTP ■ L2TP
Frequency Band	NAT firewall
	Built-in NAT server which supports Virtual Server and DMZ
	Built-in firewall with IP address filtering, port filtering, URL filtering, and MAC address filtering
LAN	Built-in DHCP server supporting static IP address distributing
	Supports UPnP, Dynamic DNS
	Supports Packets Statistics
	IP-based Bandwidth Control
	Session Number: Max. 1500
System Management	Web-based (HTTP) management interface
	Remote management (WAN Access Control)
	SNTP time synchronize
	System Log
IEEE Standards	IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP
OS Compatibility	Windows 7 Windows Vista Windows XP Mac OS X 10.4 and higher
Standards Conformance	
Temperature	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-condensing) Storage: 5 ~ 90% (non-condensing)
Regulatory	CE, RoHS, WEEE

Ordering Information

WDRT-750AC	750Mbps 802.11ac Wireless Broadband Router

Related Products

WNL-U554A	802.11n Wireless USB 2.0 Adapter External 3dBi Antenna
WNL-U554M	802.11n Micro Wireless USB 2.0 Adapter
WNL-U556M	300Mbps 802.11n Wireless Micro USB Adapter
WDL-U700	300Mbps Dual-Band 802.11n Wireless USB Adapter
WNL-9501	802.11n Wireless PCI Express Adapter

* To have the best performance and wireless connection, sincerely advise to match the above related products.

WDRT-750AC