



StraightCore WRT-314 Universal 802.11b/g wireless router with PoE function

WRT-314 is a new wireless router with a lot of new features. The first of one is integrated Power-Over-Ethernet system, provided on Lan port 1. This system can be used to power up router from a distance over ethernet cable, as well as use the router itself as power over ethernet injector for another unit. Please see installation schematics below for installation options.

Based on well-known Realtek 8186 chipset with 2 MB Flash and 16 MB memory this router is powerful enough to use all the functions of StraightCore firmware. Operational modes of wireless part offering Access Point, Client, Repeater and bridging functions with the ability to act as a level 2 MAC transparent bridge. Wireless connection can be secured by all standard wireless security protocols - WEP, WPA and WPA2 and RADIUS security server support. Wireless part offers all standardized 2.4 Ghz ISM channels, including Japan section with channel 14. Transmit power controls offering very fine settings of output, which can be controlled separately for 802.11b and 802.11g standard. On a long-range connection user can control input signal amplifier level as well to ensure best connection.

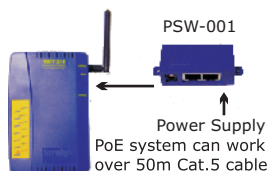
Networking part of the firmware let user set routing mode in 6 different ways. Unit offers 3 separate and independent interfaces - wireless part, separate ethernet port and integrated 4-port switch with PoE system. All those parts can be assigned to WAN or LAN logical interface of the unit and between those logical interfaces the traffic can be bridged, routed by standard routing table, network address translation mode can be used as well. Filtering part of the configuration offers easy setup of filters based on TCP/IP port, MAC address of IP address.

Except standard functions, straightcore firmware offers some special ones, like rate control, which is mostly used by internet service providers to limit maximum data throughput thru the unit, separately for upload and download.

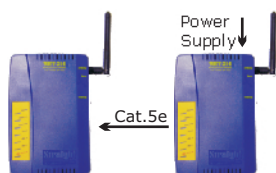
This unit can be easily used as a home wireless gateway, CPE for wireless internet access or as a bridge between 2 or more computers or networks. Just a month after it was introduced to the market, WRT-314 was honoured for TECH MAGAZINE BEST award in a big test of 63 types of wireless routers.

PoE function installation options

Remote powered unit



Slave unit setting



Outdoor unit setting



Specifications:

Wireless standard:	IEEE 802.11b, IEEE 802.11g, IEEE 802.3
Frequency Range:	2400-2483.5 MHz
Modulation:	802.11b CCK@11/5.5 Mbps, DQPSK@2 Mbps, DBPSK@1Mbps 802.11g BPSK, SPSK, 16QAM, 64QAM
Radio chipset:	Realtek RTL8186
TX Power control:	8-20 dB / Step 1 dB, Separate settings for 802.11 b and g
Memory configuration:	2 MB Flash/16 MB RAM
Power supply:	Standart 12V/1A Capable 9-18V for PoE
Antenna connector:	Reverse-polarity SMA Male
Dimensions:	74x119x25 mm
Transmission rates:	54/48/36/24/18/12/11/9/6/5.5/2/1 Mbps
Interfaces:	Wireless x 1 Separate ethernet port RJ-45 x1 Switch RJ-45 x 4 (1 PoE capable port)
Leds:	Power, Ethernet, Wireless, LAN x 4
Temperature Range:	0-35°C Operational, -15 - 40°C Storage
Humidity:	10-80° Non-condensing
Certifications:	CE/FCC
Wireless Modes	AP/Client/Bridge/Repeater/Wisp/WDS
Security standarts	WEP, WPA, WPA2 AES/TKIP, Radius server support
Routing Modes	Bridging, Layer 2 Bridging, Routing, NAT (Total 6 configurations)
Logical interfaces:	LAN/WAN
NAT-Functions:	DMZ Setting, Port Forwarding, PORT filter, IP Filter, MAC Filter
Watchdogs:	Hardware Watchdog, IP Watchdog, planned restart scheduler
Rate Control:	In Kbit/Mbit per sec, separately for upload/download
Other functions:	DHCP Server/Client, NTP Client, MASH Routing Daemon, Ping, Arping, TraceRoute, ECHO client, Access Scheduler, Hidden SSID, Cleint isolation, MAC Adress clonning, Configuration BackUp