



Review

EnGenius EVR-100

Firmware 1.0.5

Index

Index	2
Description of the test	3
Used equipment	3
Test environment / setup	3
ZapD	4
Summary of the ZapD test	4
Details of the test	4
Product specifications	6
Content package	6
Conclusion of the testing	7

Description of the test

The product is tested on the following items:

- Working of the product
- Throughput
- Stability

Used equipment

Notebook – HP Compaq 6710B
Intel Core 2 Duo
3 GB Memory
MS Windows XP Prof SP3
Intel PRO/Wireless 3945 ABG

Notebook – HP ProBook 4525s
AMD Turion
3 GB Memory
MS Windows 7
Broadcom 4313 BGN

EnGenius EVR-100
Firmware 1.0.5

Test environment / setup

The EnGenius EVR-100 is configured as Router - Access Point and wired connected to the first notebook. The second laptop connects wirelessly to the access point. With this setup, a test is performed at different distances. The test is performed with an output power of 100mW.

First test: The first test has been completed at 1 meter. Between the Access Point and the notebook where no obstacles

Second test: The second test has been completed at 5 meter. Between the Access Point and the notebook where no obstacles.

Third test: The third test has been completed at 15 meter. Between the unit and the notebook were several obstacles including a number of office walls.

ZapD

The measurements were performed with ZapD. ZapD is a tool that measures maximal performance based on maximum TCP and UDP values.

Summary of the ZapD test

Test results ZapD

Product	EnGenius EVR-100
Description	Product is tested on performance
Date	20-04-2011
Tested by	Thomas Snijder

Results	Distance		Average bandwidth UDP
LAN to LAN	/		653.6
LAN to WAN	/		575.8
Wireless to WAN	1 Meter		52.1
Wireless to LAN	1 Meter		46.9
LAN to Wireless	1 Meter		133.3
Wireless to WAN	5 Meter		38.6
Wireless to LAN	5 Meter		66.1
LAN to Wireless	5 Meter		120.4
Wireless to WAN	15 Meter		38.8
Wireless to LAN	15 Meter		42.7
LAN to Wireless	15 Meter		74.4

Details of the test

The measurements took place at different distances. It has been tested within an office environment where several obstacles are present, like office walls. This has created a normal interference of a normal commercial building / residence.

Usability

The appearance of the web interface has not changed compared to the look of previous models. In the web interface is a clear difference between the various options of the Access Point.

The screenshot displays the web interface of an EnGenius EVR100 Wireless VPN Router. The interface is divided into a left sidebar and a main content area. The sidebar, on a black background, contains the EnGenius logo and the model name 'EVR100', along with a vertical menu of navigation options: System, Wizard, Internet, Wireless, Firewall, Advanced, VPN, and Tools (highlighted in orange). The main content area has a blue header with the title 'Wireless VPN Router' and a dropdown menu for 'AP Router Mode'. Below the header is a navigation bar with tabs for 'Status' (selected), 'LAN', 'DHCP', 'Schedule', 'Log', and 'Language'. The 'Status' page contains a descriptive paragraph and two sections: 'System' and 'WAN Settings'. The 'System' section lists details such as Model (Wireless Gigabit Broadband Router), Mode (AP Router), Uptime (29 sec), Current Date/Time (2009/01/01 00:01:04), Hardware version (1.0.0), Serial Number (10C383868), and Application version (1.0.5). The 'WAN Settings' section lists: Attain IP Protocol (Dynamic IP Address), IP address (---), Subnet Mask (---), Default Gateway (---), MAC address (00:02:6F:9C:43:A9), Primary DNS (---), and Secondary DNS (---).

Product specifications

Content package

- 1 x EnGenius EVR-100
- 1 x 12V / 1A Power adapter
- 1 x English quick start manual
- 1 x English instruction CD (manual)
- 1 x UTP Cable.
- 1 x 2dBi Antenna

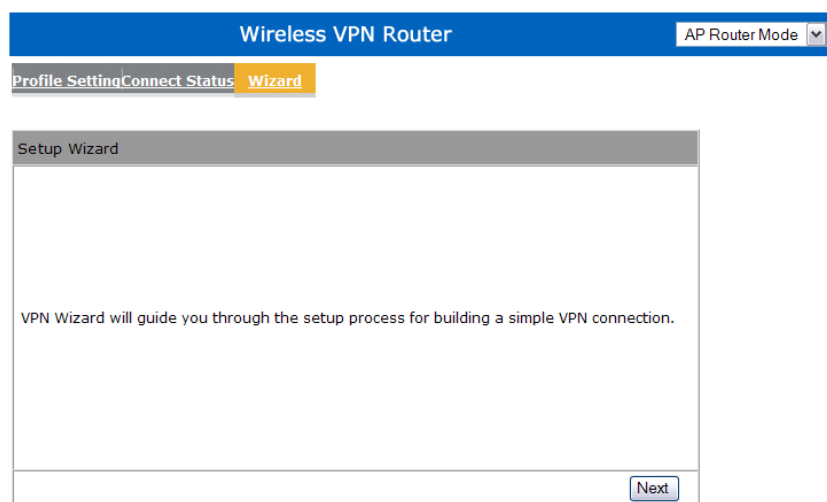
Technical specifications	
Firmware	1.0.5
Firmware upgrade	Via the webinterface
Kanalen / Frequenties	2.400 tot 2.484 GHz
Vermogen	100 mW
Interface	10/100 RJ45 Lan Port
Security	WEP / WPA / WPA 2 (TKIP - AES) 802.1x Authentication
Default IP	192.168.0.1
Default login	Username: admin Password: admin
VPN pass-thru	PPTP, IPSEC, L2TP passthrough
Server Type	IPSEC en L2TP over IPSEC
Encryption	56bit(DES), 168bit(3DES), 256bit(AES)
Max tunnels	5
Key management	Preshared key
Authentication	MD5/SHA-1
Advanced setting	NAT0Traversal, Dead Peer Detection(DPD), Perfect Forward Secrecy (PFS)
DHCP functie	Possible (Standard on)
Power adapter	12V / 1A
Antenne	2.4 Ghz: 2 dBi b/g/n band..
Temperatuur	Working: 0 tot 45 C Transport: -10 tot 70 C
Reset procedure	Reboot: 1 Sec Reset to factory default: 8 Sec

Conclusion of the testing

The EnGenius EVR-100 was tested for operation, performance and stability. During the testing we tried to create a normal environment with normal interference . With this interference, the access point performed well, this with only 100mW transmit power

The EnGenius EVR-100 operates on the B / G / N band and can be used as Access Point Router and as WDS repeater.

The EnGenius EVR-100 has the ability to set up a VPN. This can easily be done through a wizard in the unit self.



Also, the EnGenius EVR-100 has a "Network Turbo" function wich ensures that the NAT translation goes faster.

