



RTL9602C HSGQ X111W

Issued 2026-08-16 . 0 case(s) passed, 0 failed

What is outstanding

- No run has been recorded for this device yet, so there are no results to show. Run the suite first.

Device

This unit is a GPON optical network unit built on **RTL9602C** and supplied by **HSGQ** as model **X111W**. It was tested on a **live GPON line** against a real operator OLT, with its wired LAN, WiFi and internet paths all driven under load. Both firmwares were measured on the **same bench with the same instrument**; where two runs could not be compared like for like the table says so and gives no percentage.

Why OpenWrt on this device

OpenWrt replaces a vendor image that stopped being updated with one that **keeps receiving security fixes**. The device stays **as fast as it shipped** -- the hardware acceleration is still in use, so openness costs no speed -- and it is **harder to reach from the internet**: where the vendor firmware leaves management ports open to the outside, this one answers nothing there. Its settings are plain text, so a unit can be reproduced or restored exactly, and it runs **far fewer network services**, which is less that can go wrong or be attacked.

Reachable from the internet

Nothing on this device answers from the internet side: management (SSH, telnet, web) and a full sweep of the ports CPEs are commonly exploited on -- including remote-management 7547 -- are all closed. The vendor firmware, on the same line, leaves **telnet and the web interface open to the internet**. On the LOCAL network both SSH and telnet answer, deliberately: that is where a technician works.

Vendor firmware vs OpenWrt

Functional coverage

Category	Passed	Not applicable
----------	--------	----------------

Key performance (packets/s)

Measurement	Stock	OpenWrt	Difference
DHCP LAN->WAN 60 B	-	-	not captured
DHCP WAN->LAN 60 B	-	-	not captured
DHCP+VLAN LAN->WAN 60 B	-	-	not captured
DHCP+VLAN WAN->LAN 60 B	-	-	not captured
PPPoE CHAP LAN->WAN 60 B	-	-	not captured
PPPoE CHAP WAN->LAN 60 B	-	-	not captured
PPPoE CHAP+VLAN LAN->WAN 60 B	-	-	not captured
PPPoE CHAP+VLAN WAN->LAN 60 B	-	-	not captured
PPPoE PAP LAN->WAN 60 B	-	-	not captured
PPPoE PAP WAN->LAN 60 B	-	-	not captured
PPPoE PAP+VLAN LAN->WAN 60 B	-	-	not captured
PPPoE PAP+VLAN WAN->LAN 60 B	-	-	not captured
DHCP LAN->WAN 1400 B	-	-	not captured
DHCP WAN->LAN 1400 B	-	-	not captured
DHCP+VLAN LAN->WAN 1400 B	-	-	not captured
DHCP+VLAN WAN->LAN 1400 B	-	-	not captured
PPPoE CHAP LAN->WAN 1400 B	-	-	not captured
PPPoE CHAP WAN->LAN 1400 B	-	-	not captured
PPPoE CHAP+VLAN LAN->WAN 1400 B	-	-	not captured
PPPoE CHAP+VLAN WAN->LAN 1400 B	-	-	not captured
PPPoE PAP LAN->WAN 1400 B	-	-	not captured
PPPoE PAP WAN->LAN 1400 B	-	-	not captured
PPPoE PAP+VLAN LAN->WAN 1400 B	-	-	not captured
PPPoE PAP+VLAN WAN->LAN 1400 B	-	-	not captured
WiFi 2.4 GHz DHCP LAN->WAN 1400 B	-	-	not captured
WiFi 2.4 GHz DHCP WAN->LAN 1400 B	-	-	not captured
WiFi 5 GHz DHCP LAN->WAN 1400 B	-	-	not captured
WiFi 5 GHz DHCP WAN->LAN 1400 B	-	-	not captured

Measured side by side, this device

No measurement in this run was taken on BOTH firmwares at the same operating point, so there is nothing to draw. A chart of one side is not a comparison, and an empty frame would read as a measurement of zero. Every figure the run did capture is in the comparison table above and in the dated record.