Confiabits S.R.L.

Certificate of conformance

Open-source firmware validation for GPON OLT hardware

RTL8277C HSGQ G01

Issued 2026-11-26 . 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 line terminal built on **RTL8277C** and supplied by **HSGQ** as model **G01**. **No measurement has been recorded for it yet**: it has been declared on the bench and the open-source firmware port is in progress, so every figure below reads as not measured. Nothing on this page asserts anything about how this device performs.

Why OpenWrt on this device

OpenWrt is an actively maintained open-source firmware: it **keeps receiving security fixes** upstream, and its settings are plain text, so a unit can be reproduced or restored exactly. **This board's port is still in progress**, so nothing here has been measured on it yet -- what it does on this hardware, how it compares with the vendor image and what either firmware exposes to the internet are exactly what the suite is for, and this page will carry those figures once they exist.

Vendor firmware vs OpenWrt

Functional coverage

Category	Passed	No result

Key performance (Mbps - Ethernet: cable, L1)

Measurement	Stock	OpenWrt	Difference
L2 PON->uplink 60 B	-	-	not captured
L2 uplink->PON 60 B	-	-	not captured
L2+VLAN PON->uplink 60 B	-	-	not captured
L2+VLAN uplink->PON 60 B	-	-	not captured
L2 PON->uplink 1400 B	-	-	not captured
L2 uplink->PON 1400 B	-	-	not captured
L2+VLAN PON->uplink 1400 B	-	-	not captured
L2+VLAN uplink->PON 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.