



Quantum Connection 1

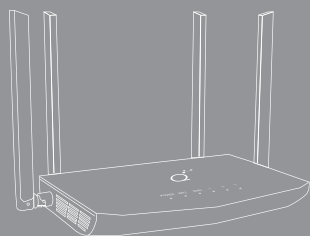
Router inalámbrico con tecnología WiFi 6

Technical Specs

Wi-Fi 6



Complies with the next generation
Wi-Fi 6 (IEEE 802.11ax) standard



General Information	TYPE (Specify type and technology: Handset, Modem, Router, MiF,... 2G, 3G, 4G, etc.) BRAND MODEL COMMERCIAL NAME SW VERSION HW VERSION	Router inalámbrico con tecnología WiFi 6 Quantum Connectivity QX-100 WF6 Quantum Connection 1 HM-V1.0.4 HM-100-V1.2
Chipset	BRAND MODEL NUMBER OF CORES & SPEED	Qualcomm IPQ6000 14nm Soc Chip, 4 Cores,,Cortex-A53, up to 1.2GHz
Memory	FLASH / RAM	128MB / 256MB
Connectivity	WI-FI OFFLOADING (ENABLED /SUPPORTED) SW UPDATE (Remote, via PC, etc) Four external antennas Wireless rate Wi-Fi Fundamental	Supported FOTA SW updates Supported Up to 1200Mbps Bss Coloring
S.O	OPERATIVE SYSTEM & VERSION	OpenWRT
Main Features	IP PROTOCOL DEFAULT (IPv4 only, IPv6 only, Dual Stack IPv4/IPv6) RAM MEMORY (list all existing versions) FLASH SUPPORT (BACK / FRONTAL) Dual Band in WiFi (2.4GHz / 5GHz) TR069 (Visible & Editable) APN CORRECTION (apn could be corrected by network) Wi-Fi (Version 802.11 a/b/g/n) Working temperature System Support	IPv4/IPv6 DDR3 2Gbit Nand Flash 2Gbit 2.4Ghz/5Ghz Optional auto apn 802.11 a/b/g/n/ac/ax 1800Mbps -20°C to 60°C Windows, MacOS & Linux System
Dimensions and Ports	DEVICE SIZE (Lenght x Width x Height) Weight (Gr) Available Ports (USB, WAN, LAN, etc.)	205×147×31mm 328g 1*1000Mbps WAN Port, 3*1000Mbps LAN Port
Functionalities	LED Indicators	Power, WPS, WAN, LAN 1, LAN 2, LAN 3
Buttons	Power ON/OFF switch Reset MESH button	Supported Supported Supported
Power Supply	Input: AC 120-240V Output: DC 12Vcc 1A Until 1200Mbps on 5GHz band and 576 Mbps on 2.4 GHz band can be reached for faster streaming, based on the OFDMA and 2*2 MIMO technology. • USB Port • MAC Address Control. • Virtual Privet Network (VPN). • High Network Capacity. • Complies with the next generation Wi-Fi 6 (IEEE 802.11ax) standard. Supports WPA3 wireless security protocols to ensure network security. Support VPN server, Universal Repeater, Multiple SSIDs, WPS, Smart QoS, Wi-Fi Scheduler. • Qualcomm Mesh Wi-Fi SON technology.	Supported Supported Supported Supported Supported Supported Supported

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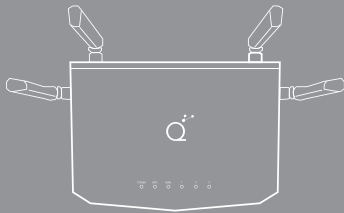
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Protocol STUN or XMPP support

Support device diagnostics: speed test (ping, DSL, ATM Loopback, DNS diagnostics, Trace, etc)
Support Https with and without certificate.
Support of Connection request issued by the ACS with user and Password (basic, digest)

Optional

YES
YES
YES

Support functionality of Set and Get commands, issued by the ACS. CPE should respond according to TR-069 (and its subsets) protocol rules(e.g. Get parameters, get attributes etc.). ALL parameters must to be checked one by one.
Session to the ACS and including new value in the Parameter List within associated Inform message.

Optional

Avoid using X Vendor, if possible

To make life much easier, it is highly recommended to avoid or reduce to a minimum the use of devices which their data model is based on X_Vendor parameters rather than standard data model. In cases the data model includes parameters which are not part in the TR-069 standard data model, naturally there is no alternative.

Optional

TR-069 Client robustness

Important to verify that the TR-069 client on the device is not stopping to work after a sever load, and become non-manageable. If the TR-069 Client sopped working, only a manual reboot will fix the problem. This problem can be resolved by implementing a "Watchdog" in the CPE that monitors and verified that the TR-069 Client is alive.

Optional

Security

Verify that the CPE supports HTTPS with and without Certificate. The CPE should support advanced security authentication where the CPE will use the Serial as unique username and use unique password only for this Serial.

Optional

NAT configuration (Type A, B, C, D, E, F or 1, 2, 3)
Function as Ethernet Access point
Port Forwarding

YES
YES
YES

Key selling points

- USB Port
- MAC Address Control.
- Virtual Privet Network (VPN).
- High Network Capacity.
- Complies with the next generation Wi-Fi 6 (IEEE 802.11ax) standard.
- Supports WPA3 wireless security protocols to ensure network security.
- Support VPN server, Universal Repeater, Multiple SSIDs, WPS,
- Smart QoS, Wi-Fi Scheduler.
- Working temperature -20°C to 60°C
- Qualcomm A53 quad-core CPU equipped
- Enable efficient data processing and Buffer-Free
- Next generation Wi-Fi standard (802.11Ax)
- Provide faster speeds, more stable network and better throughput
- 4-Stream Dual Band AX1800 (2.4G+5G) router
- Upcoming advanced versions based on Tri Band AX 3600 and AX 6600 (Cypress + PINE) can be expected.
- 1200Mbps on 5GHz band and 576 Mbps on 2.4 GHz band can be reached for faster streaming, based on the OFDMA and 2*2 MIMO technology.
- More than 100 device can be handled at the same time.

- 100+ devices can be handled at the same time.
- Qualcomm Mesh Wi-Fi SON technology not only delivers high-speed Wi-Fi network environment to every corner of your house, but also satisfy company office scene
- Keep your devices secure with advanced WPA/ WPA2/WPA3/128bit key wireless encryption and guest access.

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