

Eco7

Eco7 Wi-Fi 7 3.5Gbps Dual-Band Router



Overview

The **Eco7** is a Wi-Fi 7 router designed to deliver reliable, efficient home connectivity with built-in intelligence at the network edge. It continuously monitors key performance and stability indicators across the home network, enabling earlier fault detection, steadier user experience, and more predictable service delivery. This helps reduce avoidable support calls and improves customer satisfaction across large residential estates.

Built on a modern Broadcom platform, Eco7 delivers Wi-Fi 7 performance optimised for everyday homes, supporting growing device density and modern usage patterns with low latency and stable throughput. Multi-gig capable interfaces enable flexible broadband deployments without unnecessary complexity. Standards-based TR-069, TR-369 (USP), and MQTT provide simple remote lifecycle management, with the option to unlock deeper insight and automation when integrated with Netbeam's cloud management and analytics platform, Vision.

Multi-gig ready WAN with flexible LAN

Supports next-generation broadband tiers and smooth migration paths without unnecessary CPE complexity.

Wi-Fi 7 performance optimised for everyday homes

Wi-Fi 7 capabilities deliver responsive, low-latency performance across typical residential environments, supporting modern device density and usage patterns.

Standards-based remote management

TR-069, TR-369 (USP), and MQTT support zero-touch provisioning, firmware lifecycle control, and deep integration with cloud and app workflows.

Proactive diagnostics through continuous telemetry

Performance degradation, instability, and abnormal usage are detected early. This reduces repeat calls and engineer visits, enabling genuinely proactive support.

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Multi-Link Operation (MLO)

Devices use multiple bands concurrently; if one degrades, traffic continues seamlessly without user impact.

Advanced interference handling - preamble puncturing

Interference no longer invalidates an entire channel. Wi-Fi 7 isolates only affected portions, preserving throughput and stability in busy residential environments.

Energy-aware by design

Intelligent RF power management reduces idle energy use without compromising performance, lowering cost and improving sustainability

Tech Specs

Key Chips

- **CPU** Broadcom BCM6764
- **Flash** 128 MB
- **DDR** 512 MB

Interface

- **WAN Ports** 1 × 2.5 G
- **LAN Ports** 2 × 1 G

Dual-band Wi-Fi 7

- **2.4 GHz** 2 × 2 (up to 688 Mbps)
- **5 GHz** 2 × 2 (up to 2882 Mbps)
- **Combined Speed** = 3570 Mbps
- **Security** WPA2 / WPA3

Wi-Fi Features

- **MLO (Multi-Link Operation)** MU-MIMO / OFDMA / TWT Interference detection & channel optimisation

Operating Modes

- **Router** DHCP / PPPoE / Static / Bridge
- **Mesh Extender** Supports Mesh (Multi-AP) standards, Mesh topology view, seamless roaming (802.11 k/v/r)

Management

- **Protocols** TRo6g, TR-36g and MQTT protocols
- **Setup wizard** LAN & DHCP configuration Auto country-code detection
- **End User** Web GUI, Service Provider Vision remote, AI enabled, network management, Braille port descriptions

Security & QoS

- **Firewall** Firewall with device isolation DDoS / ARP / DDNS-hijack protection Ad blocking / abnormal traffic & device auto-isolation
- **QoS** QoS rules by traffic
- **Parental Controls** Access Time Limits, Device/Profile Pause, Speed limit
- **Guest & Home network** Easy Password Sharing, pop-up page login, subnet isolation

System & Updates

- **Features** Guest portal with subnet isolation FOTA with power-loss recovery Packet capture / eventlogging / timed reboot LED brightness & timer control Intelligent sleep mode

Coverage

- **Range** 120 m² (typical indoor)

LED Indicators

- **Status indicators** 1 × System LED (red / orange / green, with diffuser) Ethernet LED

Power

- **Power Input** USB-C 12 V-1 A (~20 W)
- **Operating Temp** 0°C to 50°C
- **Humidity** 10 to 90 % (non-condensing)
- **Storage Temp** -30°C to 60°C

Physical

- **Dimensions** Height 163.5mm, Width 110mm, Depth 60mm
- **Weight** TBC

Packaging

- **Box** 100% recycled and 100% recyclable packaging, with no plastic, no metal. Eco7, USB-C Power Supply, Ethernet Cable, QR code for quick connect and simple set up