



# Eco7 PRO

## Eco7 Pro Wi-Fi 7 9.6Gbps Tri-Band Router

### Overview

The **Eco7 Pro** is a Wi-Fi 7 router designed as an intelligent edge device. It continuously measures performance, stability, and usage patterns across the home network, enabling proactive diagnostics, smarter optimisation, and greater service reliability. Issues can be detected and addressed earlier, reducing customer impact, avoidable support calls, and churn.

Built on a high-performance Broadcom platform, Eco7 Pro delivers tri-band Wi-Fi7 across 2.4 GHz (3x3), 5 GHz (2x2), and 6 GHz (2x2), with up to 9.6 Gbps wireless throughput. A 10 Gbps WAN paired with multi-gigabit LAN interfaces supports higher-tier broadband services without disruptive CPE replacement. Standards-based TR-069, TR-369 (USP), and MQTT ensure simple remote lifecycle management, with the option to unlock deeper insight and automation when integrated with Netbeam's cloud management and pro-active analytics platform, Vision.

#### **10G-ready WAN with multi-gig LAN**

Enables higher-tier broadband packages without disruptive CPE replacement cycles.

#### **Wi-Fi 7 performance up to 9.6 Gbps**

320 MHz channels and 4096-QAM deliver low-latency, high-density performance for demanding homes and SMB environments

#### **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 BCM6765
- **Flash** 256 MB
- **DDR** 1 GB

### Interface

- **WAN Ports** 1 × 10 G
- **LAN Ports** 1×2.5G + 2×1G

### Tri-band Wi-Fi 7

- **2.4 GHz** 3×3 (up to 1032 Mbps)
- **5 GHz** 2×2 (up to 2882 Mbps)
- **6 GHz** 2×2 (up to 5765 Mbps) 320 MHz; 4096-QAM
- **Combined Speed** = 9600 Mbps
- **Security** WPA2 / WPA3

### Wi-Fi Features

- MLO, MU-MIMO, OFDMA, TWT, interference detection & channel optimisation, Auto channel selection

### 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** TR069, TR-369 and MQTT protocols
- **Setup wizard** LAN/DHCP configuration; auto country-code
- **End User** Web GUI, Service Provider Vision remote, AI enabled, network management, Braille port descriptions

### Services & WAN

- **Features** IPv4/IPv6 (DHCP / PPPoE / Static / Bridge); IPTV options; 4G/5G hotspot failover; MAC clone

### Security & QoS

- **Firewall** Firewall (graded), device isolation, DDoS/ARP/DDNS-hijack protection, ad blocking; abnormal traffic/device detection with 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
- **VPN** L2TP, PPTP, IPsec, Wire Guard, OpenVPN client

### System & Updates

- **Features** FOTA with power-loss recovery; packet capture; event logging/alerts; scheduled reboot; LED brightness/timer

### Coverage

- **Range** 140 m<sup>2</sup> typical indoor

### LED Indicators

- **Status indicators** 1× system (red/orange/green) plus Ethernet port LEDs; states for startup/reset/upgrade/mesh.

### Power

- **Power Input** USB-C 12 V=2.5 A (-30 W)
- **Operating Temp** 0°C – 50°C
- **Humidity** 10 to 90 % (non-condensing)
- **Storage Temp** –30°C to 60°C
- **Smart Power management** Auto RF power reduction during idle periods

### Physical

- **Dimensions** Height 213.5mm, Width 150mm, Depth 70mm
- **Weight** TBC

### Packaging

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