

# SKYBOXE

## 5G Fixed Wireless Access Router

Device Specifications



### The Wireless Alternative for High-Speed Home Internet

The SKYBOXE® 5G Fixed Wireless Access Router simplifies people's lives by combining a fixed wireless access (FWA) gateway with a Wi-Fi 6-capable router. It provides high-performance internet access via a wireless carrier – like AT&T or T-Mobile – rather than from a traditional cable-, DSL-, or fiber-based ISP.

The device allows wireless carriers and network operators to deliver high-speed, low-latency broadband services into homes and businesses.

### Technical Standards

- **WAN:** 5G New Radio, LTE, UTMS
- **LAN:** IEEE 802.3, 802.3u, 802.3z
- **WLAN:** IEEE 802.11a/b/g/n/ac/ax
- **Certification compliance:** FCC, RoHS, RE

### Benefits

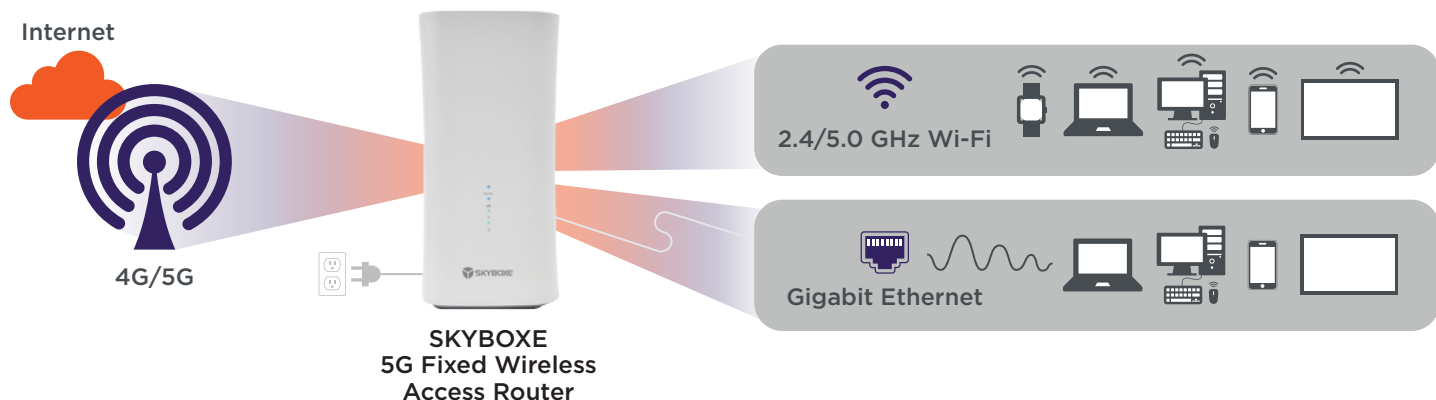
- Backs up or replaces wired internet service
- Convenient, easy-to-use, connects immediately
- Perfect for areas where broadband is hard to get
- Secure: can be provisioned for company VPNs
- Isolates work from non-work network traffic
- Resolves bandwidth sharing/congestion issues
- Ideal for home, business and remote workers
- Reduces equipment costs

### Feature Highlights

- 5G NR (New Radio) and LTE-A Cat20 dual mode
- Wi-Fi 6 (802.11ax), OFDMA and MU-MIMO
- Supports NSA and SA modes
- Europe and Asia Sub-6 5G and LTE-A coverage
- Maximum downlink: 1.8 Gbps throughput
- Two RJ-45 Gigabit Ethernet ports
- Powerful administration and security features
- Web, TR069, and SNMP device management

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### Bands Supported

- **5G:** n2, n5, n12, n25, n41, n66, n71, n78
- **4G LTE:** B2, B4, B, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B66, B71
- **WCDMA (Wideband Code Division Multiple Access):** B1, B2, B4, B5, B8
- **WLAN:** 2.4 Ghz and 5.0 Ghz with QAM1024 support
- **Access Point:** IPQ6010 Quad-A53 @ 1.8 Ghz supports 802.11ax MIMO 2x2, bandwidth 80M, Wi-Fi SON support

### Maximum Transmit Power

- **5G NR Sub-6 Bands:** Class 3 – 23dBm
- **4G LTE:** Class 3 – 23dBm
- **WCDMA:** Class 2 – 23dBm

### Hardware Specifications

- Two RJ-45 Gigabit Ethernet ports
- One 4FF (nano) SIM card slot
- Four front-panel tri-color LED indicators:
  - 4G/5G indicator
  - WAN signal strength indicator
  - WLAN active indicator
  - Power indicator
- Multi-function smart button controls WPS, channel scan, power off/on WAN radio, power off/on 4G/5G
- Reset/restore button

### Physical/Environmental

- **Power:** DC 12V, 2.0A, maximum 24W
- **Temps:** Operating: -10°C to 45°C; Storage: -40°C to 70°C
- **Humidity:** 5% to 95%
- **Dimensions:** 105 mm W x 105 mm D x 216 mm H; <1 Kg

### Software Specifications

- **Data services:** 4x APNs (two for data, one for voice, one for management); multi PDN (up to 16); IPV4/IPV6 compliance
- **LAN:** IEEE 802.1Q VLAN; DHCPV4/DHCPV6 server/client; DNS and DNS proxy; DMZ; UPNP; ALG; Mac address filtering
- **WLAN:** IEEE 802.11a/b/g/n/ac/ac Wave 2/ax; up to 1.8 Gbps; beamforming; MU-MIMO; short guard interval (GI) in 20 MHz, 40 MHz, 80 MHz modes; priority mapping and packet scheduling based on a Wi-Fi Multimedia (WMM) profile; automatic and manual rate adjustment; WLAN channel management and channel rate adjustment; service set identifier (SSID) hiding, WPS
- **Encryption:** WEP, AES, and TKIP + AES
- **Security modes:** Open; WPA2.0 PSK; WPA 1.0/WPA 2.0 PSK; WEP Shared Key (4 keys max)
- **Voice services:** VOLTE/VoNR (optional)
- **Management:** HTTP/FTP auto-upgrade; TR069 upload/download configuration files; remote upgrade; remote debugging; SNMP; WebGUI; encryption backup; logs and diagnostics export; USIM PIN management and card authentication, USIM activation
- **VPN and routing:** NAT mode; bridge mode; bypass mode; port mirror; ARP; port forwarding; IPsec; PPTP; GRE tunnel; L2TP V2/V3; VPN pass-through
- **Security:** Firewall; mac address filtering; IP address filtering; URL filtering; access control; HTTPS login from WAN; DDOS attach protection; hierarchical user management

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