

SKYBOXE

5G Fixed Wireless Access Router

Model no. SB5GCPE-150
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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Hardware Specifications

Module	Fibocom FM150	
Technical standards	WAN	5G NR/LTE/WCDMA
	LAN	IEEE 802.3/802.3u
	WLAN	IEEE 802.11a/b/g/n/ac/ax
Cellular bands (SRS621-a AE version)	5G NR	n1/n3/n5/n8/n20/n28/n38/n41/n77/n78/n79
	4G LTE	B1/B3/B5/B7/B8/B19/B20/B28/B38/B40/B41/B42/B43
	WCDMA	B1/B3/B5/B8/B19
	WLAN	2.4 Ghz and 5 Ghz with 1024-QAM support
Cellular bands (SRS621-b NA version)	5G NR	n2/n5/n7/n12/n25/n41/n48/n66/n71/n77/n78
	4G LTE	B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B29/B30/B41/B42/B43/B46 (LAA)/B48/B66/B71
	WCDMA	B1/B2/B4/B5/B8
	WLAN	2.4 Ghz and 5.0 Ghz with 1024-QAM support
External ports	1 x DC jack 2 x RJ45 gigabit ethernet port 1x 4FF (nano) SIM card slot	
Antennae	4 built-in antenna for cellular 2 built-in antenna for Wi-Fi	
LED indicators	1x tricolor 4G/5G indicator	
	1x tricolor WAN signal strength indicator	
	1x WLAN active	
	1x power indicator	
Buttons	1x multi-function smart button controls: WAN power, 4G/5G power, WPS, channel scan, 1x reset/restore button	
Carrier aggregation	SRS621-a AE version LTE: 3 DLCA SRS621-b NA version LTE: 7 DLCA	
Maximum transmission power	5G NR sub-6 bands	Class 3 -- 23±1dBm
	SRS621-a AE version	Class 2 -- 26±1dBm
	5G NR n41/n77/n78/n79	
	SRS 621-b NA version	Class 2 -- 26±1dBm
	5G NR n41/n78	
	4G LTE	Class 3 -- 23±1dBm
Cellular data throughput (SRS621-a ASE version)	WCDMA	Class 3 -- 23.5±1dBm
	5G SA	Downlink: 1 Gbps; Uplink: 900 Mbps
	5G NSA/ENDC	Downlink: 1 Gbps; Uplink: 525 Mbps
	LTE-A (CAT16)	Downlink: 1 Gbps; Uplink: 150 Mbps
Cellular data throughput (SRS621b NA version)	5G SA	Downlink: 1 Gbps; Uplink: 450 Mbps
	5G NSA/ENDC	Downlink: 1 Gbps; Uplink: 525 Mbps
	LTE-A (CAT20)	Downlink: 1 Gbps; Uplink: 150 Mbps
Power supply	DC 12V/2.0A	
Power consumption	<24W	
Dimensions	105 mm W x 105 mm D x 217 mm H	
Weight	< 1 kg	
Humidity	5% - 95% non-condensing	
Temperature	Working temperature: -10°C to 45°C	
	Storage temperature: -40°C to 70°C	

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Software Specifications

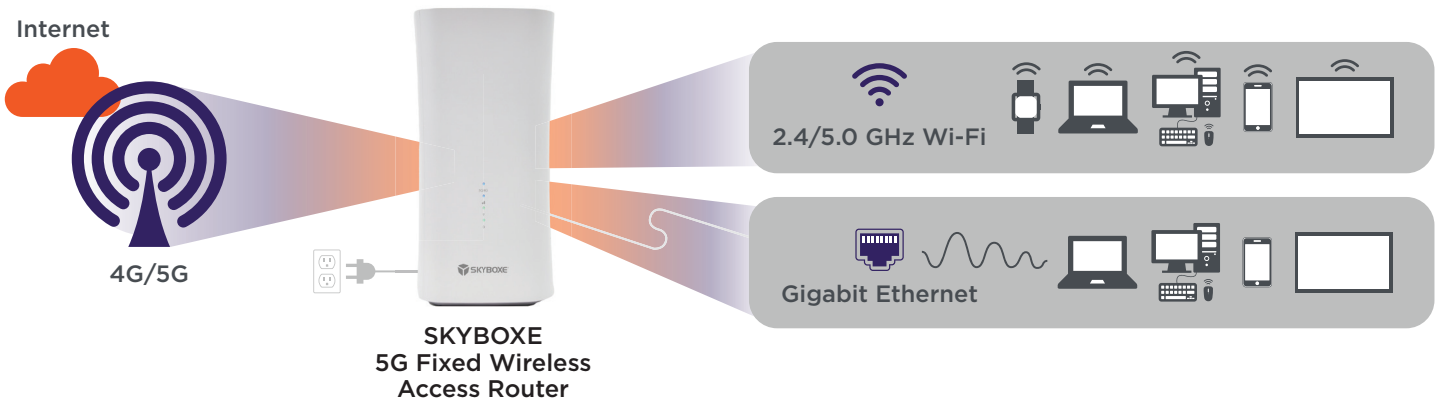
Data services	4 x APNs	
	Multi PDN	
LAN	IPV4/IPV6 dual stack support	
	DHCP V4/V6	
	DNS and DNS proxy	
	DMZ	
	UPNP	
	ALG	
Management	ARP/ICMP/IGMP	
	Version management	Image checksum
	HTTP/FTP auto upgrade	
	TR069	Upload/download the ACS specified file
		Download the configuration file
		Configure & queries parameters
		Remote upgrade
		Remote debugging operations
		Cycle monitor
	SNMP	
	Web GUI/CLI	Different level of user login priority and different limitation and display
		Encryption backup current settings and restore backup settings
		Export of current diagnosis results and operation logs
		Statistics of LAN link status, transmit and receive traffic and up time
	Diagnostics	
	USIM PIN management and card authentication	
	USIM activation	
	NAT/bridge mode	
	Port mirror/port forwarding	
VPN and routing	Static routing	
	IPSec	
	PPTP	
	GRE tunnel	
	L2TP V2/V3	
	Static routing	
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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Compliance Specifications

Certification compliance (customer demand basis)	CE
	FCC
	RoHS
	REACH
	WEEE
Environmental compliance	Cold: IEC 60068-2-1
	Dry heat: IEC 60068-2-2
	Damp heat cyclic: IEC 60068-2-30
	Change of temperature: IEC 60068-2-14
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6



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