

SKY5G TCPA 117

Empowering Connectivity Anywhere

THE PROBLEM

Across rural landscapes and congested urban centers, millions face limited or unreliable internet connectivity. Weak RF signals and inaccessible fiber leave gaps in access – holding back education, commerce, and life.

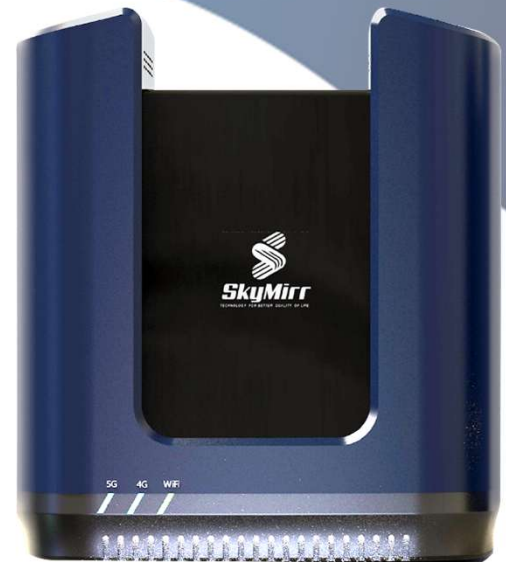
THE SOLUTION: SKY5G ROUTER

SkyMirr redefines connectivity with its groundbreaking Sky5G Router, delivering ultra-fast internet speeds and unparalleled coverage.

- **Unmatched Performance:** Achieve 5G download speeds of up to 3.4Gbps.
- **Optimized for Any Environment:** Whether you're in a rural area, in an office building, or in a high-density urban center, SkyMirr Sky5G ensures reliable broadband connectivity.

Revolutionary Technology

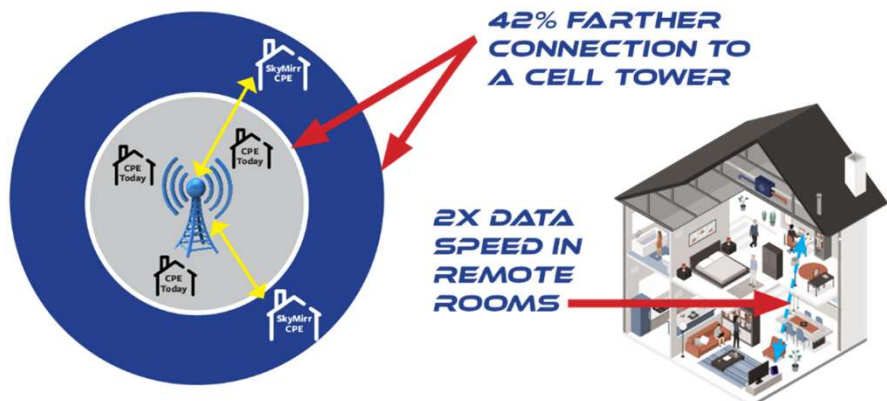
- **MuLCAT® Antennas:** Powered by advanced MuLCAT® technology, the Sky5G optimizes performance in real time using AI-driven algorithms.
 - Extends connectivity to hard-to-reach areas without requiring changes to existing carrier infrastructure.
 - Delivers significant performance improvements over today's antennas.
- **Over 75% Antenna Efficiency:** Across the entire 600 MHz to 6000 MHz FR1 spectrum, covering all 3GPP 4G LTE and 5G bands.



Key Benefits

Discover the future of wireless broadband:

- **Expanded Reach on the Network Side:** Up to 42% farther connection to a Cell Tower compared to traditional router solutions.
- **Faster Data on the WLAN Side:** Wi-Fi 7 allows for 2x faster data speed in remote rooms, as well as up to 512 simultaneous connected devices.
- **Supports Private Networks:** Enables secure deployment in private LTE/5G networks for enterprises, campuses, and industrial applications.



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SKYMIRR: BRINGING THE FUTURE OF WIRELESS BROADBAND TO EVERYONE, ANYWHERE.

Category	Items	Sky5G
Hardware	CPU	Quad-Core ARM-A73 @2.2GHz
	Memory	DDR4: 2GB, FLASH: 256MB
	Buttons	Reset button, WPS button
	LEDs	Power (Mood) – White, 5G NR – Blue, 4G LTE – Blue, Wi-Fi – Green
	SIM	1 x Nano USIM (4FF)
	Power	DC 12V adapter, 100~240VAC, 50/60Hz
	Operating Temperature	0°C ~ 50°C
	Dimensions (WxHxD)	177 x 184 x 120 mm
Connectivity	Radio	3GPP release 16, sub-6, 4x4 MIMO, multi carrier component, up to 100MHz BW
	5G NR Bands	n1/ 2/ 3/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 20/ 25/ 26/ 28/ 29/ 30/ 38/ 40/ 41/ 48/ 66/ 70/ 71/ 75/ 76/ 77/ 78/ 79
	4G LTE Bands	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 29/ 30/ 32/ 34/ 38/ 39/ 40/ 41/ 42/ 43/ 48/ 66/ 71
	Wi-Fi 7	Qualcomm IEEE 802.11 a/b/g/n/ac/ax/be, 4x4 MU-MIMO, 4x4 2.4GHz + 2x2 5Gz + 2x2 6GHz concurrently, 20/40/80/160/320MHz bandwidth, BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation
	USB Port	1 x USB 2.0 port (type-C)
	Ethernet Ports	1 x Ethernet WAN RJ-45 port 1 x Ethernet LAN RJ-45 port
	Device Access Capacity	Up to 512 Simultaneously Connected Devices
Data Rate (Max)	5G NR Sub-6	DL 1.2 Gbps; UL 450 Mbps (with 1cc, 4X4 MIMO, 100MHz BW)
	4G LTE	DL 320 Mbps; UL 40 Mbps (with 1cc, 4X4 MIMO, 20MHz BW)
	Wi-Fi 7	Up to 10 Gbps (= 1376Mbps + 2882Mbps + 5765Mbps with 4x4 2.4GHz + 2x2 5GHz + 2x2 6GHz)
	Ethernet WAN port	2.5Gbps
Basic Function	Ethernet LAN port	2.5Gbps
	WAN	IPv4 & IPv6 Routing
		DHCP client
		Transparent Bridge
Mobile 4G LTE / 5G NR	LAN	NAT
		Static IP address
		DHCP server
	Monitor Status	Monitor Uptime / APN / IMEI / ICCID / MDN
	Signal Strength	Monitor RSRP(dBm) and display signal quality
	Signal Indicator	Display RSRP / RSSI / RSRQ / SNR
	Connection Status	Display connection status (Connected / Disconnected)
	Selectable band	Select and configurable mobile band
	Automatic band selection	Sky5G supports both manual and automatic band selection
	Failover	Supports redundancy between 2.5G ethernet WAN and mobile
	Load balancing	Traffic balancing between 2.5G ethernet WAN and mobile
	Usage report	Data Limit / Data Usage

Category	Items	Sky5G
Wi-Fi	Stream Multiplex	Supports MU-MIMO
	Wi-Fi protocol	Support for Wi-Fi 7
	2.4G / 5G / 6G	Support for legacy 2.4G & 5G and Wi-Fi 7 6GHz
	SSID & Password	Configurable SSID and Password
	Channel Selection	Automatic Channel Selection
	Channel Bandwidth	Supports 320MHz for Wi-Fi 7 6GHz
	Guest Network	Supports 2.4G / 5G / 6G Guest Network separately
	WMM	Supports Wi-Fi Multimedia that prioritizes network traffic to improve performance for applications like voice and video
	WMF	Supports Wireless Multicast Forwarding that enhances the efficiency of multicast traffic transmission over a wireless network
Security	Band steering	Supports high-speed, optimized frequency selection.
	Firewall	Stateful Packet Inspection (SPI) Access Control Lists (ACL)
	Filtering	Support for MAC & URL filtering
	Application Blocking	Blocking the specific application for example Netflix
Management	URL Blocking	Blocking the unwanted URL for example file hosting
	Device Remote Firmware Recovery Network Management System (NMS)	SkyMirr Dashboard (GUI) JSON based remote control Dual Image, Automatic Updates (w/ signature verification) Watchdog / Auto Recovery Firmware Over-The-Air (FOTA)
Administrative	Device Registration	
	Real-time Monitoring	Supports monitor online/offline status
	Remote Configuration	Push configuration and update firmware
	Alerts & Notifications	Basic threshold alerts via email
	Dashboard & Reporting	Display device list and its status
	User Access & Role Management	Supports different authority to control the device
	Encrypted sessions	Support for SSH and login
	Diagnostics	Supports Keep-alive through ping
	Troubleshooting	Able to reset device remotely.
	API Access	JSON API based access to device
	Zero-touch Provision	Configure device remotely through device's profile
Certifications	Bulk import configuration	Configure multiple devices with same configuration
	Carriers	AT&T and T-Mobile, US cellular, Federal Communications Commission
IP Passthrough	Other	PTCRB
		Transparently passes all LAN traffic to the WAN side, enabling direct communication.
IPSec Passthrough		Transparently forwards IPsec-encrypted data from the LAN port to the WAN interface.
NMS Base Features		FOTA, Service Tier, Device Management, Customer Management