

5G SUB-6 /  
4G LTE Wireless  
CPE/Router

# 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.



**SKYMIRR**  
BE AMAZED

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## Revolutionary Technology

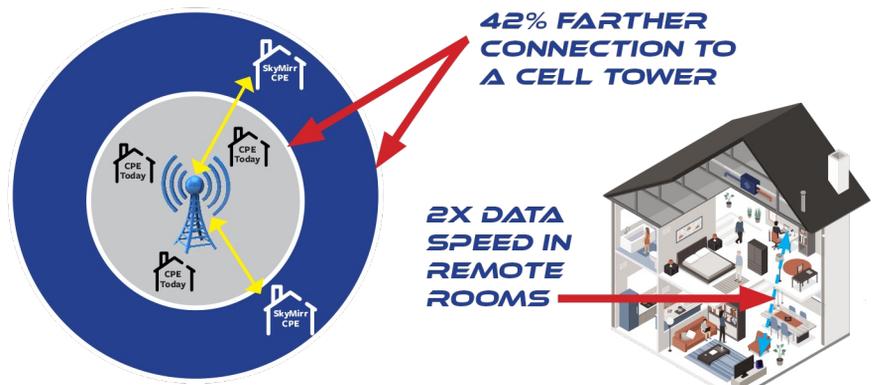
- **MuLCAT® Antennas:** Powered by advanced MuLCAT® technology, the Sky5G optimizes performance in real time using AI-driven algorithms.
  - Extends connectivity to hard-to-reach areas without requiring changes to existing carrier infrastructure.
  - Delivers significant performance improvements over 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 dataspeed in remote rooms, as well as up to 512 simultaneous connected devices.



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

Category	Items	Sky5G
<b>Hardware</b>	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 Dimensions (WxHxD)	0°C ~ 50°C 177 x 184 x 120 mm
<b>Connectivity</b>	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
<b>Data Rate (Max)</b>	5G NR Sub-6 4G LTE	DL 1.2 Gbps; UL 450 Mbps (with 1cc, 4X4 MIMO, 100MHz BW) 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
	Ethernet LAN port	2.5Gbps
<b>Basic Function</b>		IPv4 & IPv6 Routing
	WAN	DHCP client
		Transparent Bridge
		NAT
LAN	Static IP address	
	DHCP server	
<b>Mobile 4G LTE / 5G NR</b>	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)
	MTU	Configure MTU size
	Selectable band	Select and configurable mobile band
	Usage report	Data Limit / Data Usage

Category	Items	Sky5G
<b>Wi-Fi</b>	Stream Multiplex	Support MU-MIMO
	Wi-Fi protocol	Support Wi-Fi 7
	2.4G / 5G / 6G	Support legacy 2.4G & 5G and Wi-Fi 7 6GHz
	SSID & Password	Configurable SSID and Password
	Channel Selection	Automatic Channel Selection
	Channel Bandwidth	Support 320MHz for Wi-Fi 7 6GHz
	Guest Network	Support 2.4G / 5G / 6G Guest Network separately
	WMM	Support Wi-Fi Multimedia that prioritizes network traffic to improve performance for applications like voice and video
	WMM	Support Wireless Multicast Forwarding that enhances the efficiency of multicast traffic transmission over a wireless network
Bandwidth Control	Bandwidth Control for Wi-Fi Primary & Guest	
<b>Security</b>	Firewall	Stateful Packet Inspection (SPI) Access Control Lists (ACL)
	Filtering	Support MAC & URL filtering
	Application Blocking	Blocking the specific application for example Netflix
	URL Blocking	Blocking the unwanted URL for example file hosting
<b>Management</b>	Device Remote	SkyMirr Dashboard (GUI) JSON based remote control
	Firmware Recovery	Dual Image, Automatic Updates (w/ signature verification) Watchdog / Auto Recovery
<b>Administrative</b>	Device Registration	
	Real-time Monitoring	Support monitor online/offline status
	Remote Configuration	Push configuration and update firmware
	Alerts & Notifications	Basic threshold alerts via email
	Dashboard & Reporting	Display device list and it's status
	User Access & Role Management	Support different authority to control the device
	Encrypted sessions	Support SSH and login
	Diagnostics	Support 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	
Bulk import configuration	Configure multiple devices with same configuration	
<b>Certifications</b>	Carriers	T-Mobile, Verizon, US cellular
	Other	PTCRB