



Canopy 5G Indoor Sub-6GHz Radio Model SCE5164



Radios increase cellular coverage and network capacity for private networks, improving customer experience and application performance and are a key component in MosoLabs’ private cellular network solution.

MosoLabs Canopy is a suite of cutting-edge 4G and 5G indoor and outdoor radios tailored to empower industries such as manufacturing, logistics, and transportation with seamless and secure private cellular networks. Our Canopy 5G Indoor Sub-6GHz radios are designed to improve coverage and capacity, enabling you to build a secure and resilient private network.

Hardware Key Specifications

Key Items	Specification
Small Cell Type	Indoor
Chipset	Sub-6GHz Modem Chip Qualcomm FSM10056 Sub-6GHz RFIC Qualcomm SDR9000 NPU NXP LS1046A
Working Frequency	SCE5164-B48 : Sub-6GHz Band n48 3550 ~ 3700MHz SCE5164-B77 : Sub-6GHz Band n77 3800 ~ 4200MHz SCE5164-B78 : Sub-6GHz Band n78 3300 ~ 3800MHz
MIMO and Modulation	DL / UL 2 Layer MIMO with 256QAM
IBW	IBW 100MHz, OBW 100MHz
Tx Power	Max 32 dBm EIRP / Up to 23dBm per antenna port
Antenna	2x 6dBi Internal Antenna, Horizontal $60 \pm 3^\circ$, Vertical $60 \pm 3^\circ$ 1x GPS Antenna port (SMA)
Timing Sync	GPS, PTP, 1PPS output
Ethernet Port	1x 1Gbps (w/ PoE++), 1x 1Gbps, 1x SFP port
Physical Size	Device: 240 x 240 x 69 mm Box: 298 x 308 x 160 mm Carton: 508 x 340 x 351 mm (3 boxes in 1 carton)

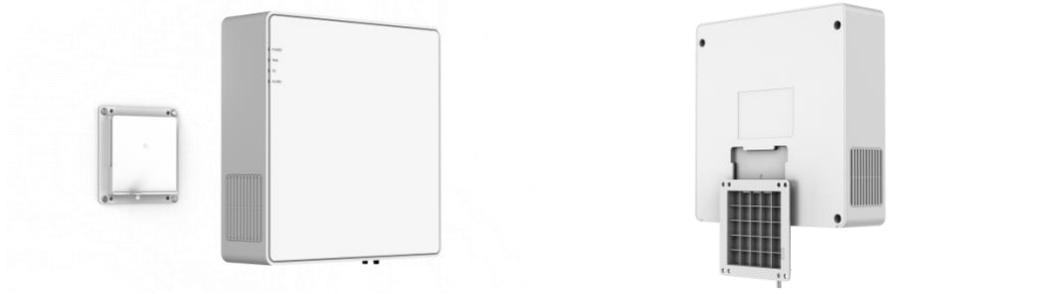
Weight	Device: 1.5 kg (not include accessories) Box: 2.35 kg Carton: 7.05 kg (3 boxes in 1 carton)
Power Consumption	< 28 Watts
Power Supply	19V DC IN
LED	4x LEDs (Power, WAN, 5G, Alarm)
Mounting Option	Wall Mount or Ceiling Mount
Certification	CE certified for SCE5164-B78 FCC, OnGo certified for SCE5164-B48

Software Key Specifications

Key Items	Specification
Standard	3GPP Release 15
Bandwidth Supported	N78, N77: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 MHz N48: 10 / 20 / 30 / 40 MHz
Core Architecture	SA (Option 2) / NSA (Option 3.x)
RAN Split Option	Option 2 / Full Stack (CU+DU+RU Integrated)
Active UE Number	4 Users per TTI 16 ~ 64 Active Users (Depend on Bandwidth Configuration)
5G NR Features	Flexible Frame Configuration (FR1.30-1~6 AKA 7DS2U /DDDSU /DDDSUDDSUU /DDDDSUUDDDD /DSUU /DSSU) MultiRAB (include VoNR / ViNR) MOCN, RAN Slicing (eMBB), LIPA CMAS / ETWS
Mobility	Inter / Intra-Freq Cell Reselection Inter / Intra-Freq Xn/NG based HO
SON	MLB / ANR / Auto Provisioning
Management	O1 / TR-069 Dual OAM and Multiple Connections E2 Interface (E2SM / KPM) Local Web GUI, CLI
Backhaul	IPv4 IPv6 (Static / Stateful / Stateless) WAN Selectable (Ethernet / SFP) M / C / UP Separation with VLAN
Security	Integrity / Ciphering in uu SSH / HTTPS Account Management IPsec with IPv4 / IPv6, CMPv2
CBRS Support	Extra Frame Configuration: CBRSA (1/2) SAS Client with Frequency Allocation Strategy Multi-BWP for Non-Contiguous Channel

Mounting Illustration

The picture is for reference only, subject to the actual product.



Mounting Bracket Side View



Wall Mount

Ceiling Mount

Environment

Operation	Temperature: 0°C - 40°C; Humidity: 5% - 90% RH (non-condensing)
Storage	Temperature: -5°C - 50°C; Humidity: 5% - 95% RH (non-condensing)

Accessories

Accessories	<ul style="list-style-type: none"> 1x19V 3A AC/DC Power Supply Adapter, and 1x1.5M Power Cord 1x1.5M CAT.5E Ethernet Cable 1x Mount Bracket and Screws Set 1x GPS Antenna with 10M Extending Cable (Optional) 1x 56V 1.07A PoE++ Injector (Optional)
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Ordering Information

Model	Description
SCE5164-B48	Indoor Sub-6 GHz Small Cell with Band n48 Support
SCE5164-B77	Indoor Sub-6 GHz Small Cell with Band n77 Support
SCE5164-B78	Indoor Sub-6 GHz Small Cell with Band n78 Support
GPS13D-S6-00	GPS Antenna with 10M Extending Cable

POE60U-BTA

56V 1.07A PoE++ Injector (Optional)