



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 4G Indoor 5G 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) |

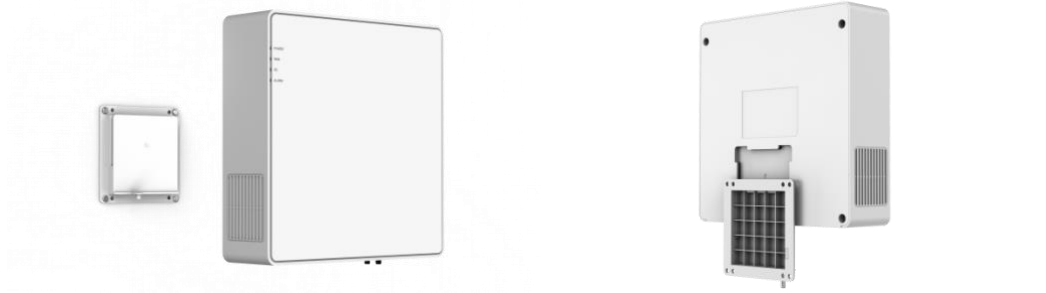
| | |
|--------------------------|---|
| Weight | Device: 1.5 kg (not include accessories) Box: 2.35 kg Carton: 7.05 kg (3 boxes in 1 carton) |
| Power Consumption | < 28 Watts |
| Power Supply | 19V DC IN |
| LED | 4x LEDs (Power, WAN, 5G, Alarm) |
| Mounting Option | Wall Mount or Ceiling Mount |
|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

Software Key Specifications

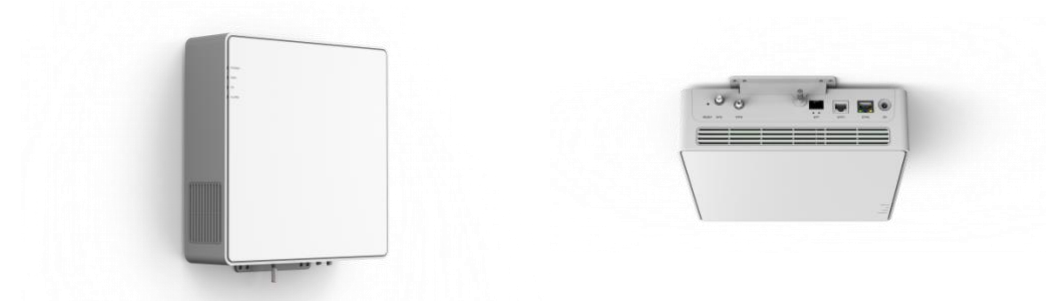
| Key Items | Specification |
|----------------------------|---|
| Standard | 3GPP Release 15 |
| Bandwidth Supported | N78, N77: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 MHz N48: 10 / 20 / 30 / 40 MHz |
| Core Architecture | SA (Option 2) / NSA (Option 3.x) |
| RAN Split Option | Option 2 / 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) |
|--------------------|---|

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)