Moso Canopy 5GOD1

The **Moso Canopy 5GOD1** enables enterprises of all sizes to cost-effectively deploy secure, high-speed private 5G cellular networks. Our outdoor radio efficiently delivers the coverage, capacity, and control required for a wide range of applications, including manufacturing and logistics, offices and campuses, healthcare facilities, and government operations.

<15ms	400MHz	<51W	755
Latency	IBW	Power consumption	Mbps DL

Seamless Deployments

Easily pole-mounted, the 5GOD1 deploys seamlessly into existing enterprise environments with zero-touch provisioning, pre-verified core interoperability, and an integrated CBRS domain proxy.

AI-Driven Performance Optimization

Intelligent diagnostics delivered by the Moso Intelligent Management Platform (IMP) continuously optimize 5GOD1 performance, while automating tasks like real-time telemetry, firmware upgrades, parameter adjustments, and batch operations.

Advanced Security

Enforces robust cellular security with mutual authentication, multiple IPSec tunnels, encrypted data transfer, and granular RAN management.

Flexible Coverage Options

The 5GOD1 provides flexible outdoor coverage using high-gain internal directional antennas and external N-type antenna ports. It offers a cost-effective, rapid replacement for DAS systems with MOCN neutral host support for up to 64 active users.

Key Features & Benefits

- Lightweight, compact design for easy pole-mount installation (≤6kg)
- Ruggedized design withstands harsh weather and high winds

- Integrated CBRS and 5G RedCap capabilities accelerate end-to-end deployments
- AI and ML-powered diagnostics automate and optimize RAN management

Contact info@mosonetworks for more information

Technology

Specifications

Radio Type	5G Outdoor Enterprise All-in-One
Band	n48 3550 ~ 3700MHz (CBRS) n78 3300 ~ 3800MHz
Bandwidth	n48: 10 / 20 / 30 / 40 MHz – up to 100MHz with Multi-BWP n78, n77: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 MHz IBW 100MHz, OBW 100MHz
Tx Output Power	Max 45 dBm EIRP / Up to 30dBm per antenna port
RF Capability	2x2 DL/UL MIMO Up to 256-QAM
Antenna	2x 12 dBi antenna Horizontal BW 70 ± 5° Vertical BW 15± 5° 2x External N-Type Connectors
Timing	PTP (IEEE 1588v2) GNSS
Active Users	4 Users per TTI Up to 64 Active Users (depends on use of IPSec/encryption and bandwidth configuration)
Network Interfaces	1GE with PoE++ (IEEE 802.3bt) SFP for Fiber 1GE for LAN Management
Power Consumption	<51W

Physical & Environmental

Specifications

Power Supply	PoE++ (IEEE 802.3bt)
Physical Size	410 x 286 x 115 mm
Weight	6kg
Mounting Option	Pole Mount
Operation Environment	Temperature: -30°C to 50°C Humidity: 5% to 95% non-condensing
Storage Environment	Temperature: -40°C to 70°C Humidity: 5% to 95% non-condensing
Ingress Protection	IP65
Reliability	Wind Resistance 200km/h
MTBF	290,000 hours @ 45 °C

Performance

Specifications

Throughput	755/170Mbps (4:1 / DDDSU / FR1.30-2,100MHz) 260/70Mbps (4:1, UL MIMO, 40MHz) 35Mbps with no UL MIMO Max UL 420Mbps (5:5 / DSUU / FR1.30-5,100MHz)
Latency	<15ms (Ping Roundtrip to 5GC)

Software Features

Specifications

Standard	3GPP Release 15 and 5G RedCap Release 17 5G SA: NR and RedCap
Multi-Core	Integrated with major 5GCs MOCN 6 PLMN-IDs
Voice and Video	VoNR & ViNR
CBRS Support	Extra Frame Configuration: CBRSA (1/2) SAS Direct Connection MosoNetworks' CBRS Domain Proxy
Mobility	NG and Xn Handovers
Regulatory	E911, Wireless Emergency Alerts, Wireless Priority Service
SON	Distributed: Auto PCI, ANR, MLB)
Security	Multiple IPSec tunnels
Remote Management	Integrated Remote Management with Moso Control Dual OAM Connections Zero-touch Provisioning KPIs, Diagnostics, Upgrades O1 - Frequency/PCI/RACH/NBR/MRO E2 - Traffic Steering

Ordering Information

Model	Description
SCO5165P-B48	Outdoor Sub-6 GHz Small Cell with Band n48 Support
SCO5165P-B78	Outdoor Sub-6 GHz Small Cell with Band n78 Support

Compliance and Certification

Specifications

Certification	FCC Part 96 Category B