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[Motorola Canopy Point to Multipoint 5.2 Ghz Series - Product Specifications](#)

5251SMBC Canopy 5.2 Ghz Subscriber Module Advantage with AES

Canopy Advantage SM offers highest Capacity and lowest Latency. The SM is the subscriber termination unit or the Customer Premise Equipment (CPE). It consists of a single module that operates with an integrated 60-degree antenna. Each SM can communicate to a single AP Module at any given time. SM synchronization and control is accomplished via the received AP signal. SMs are typically located outdoor and Line of Sight (LOS) from the APs. Once the SM is initialized, it scans the Radio Frequency (RF) channels and automatically registers with the appropriate AP

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- [Canopy Subscriber Module Users Manual \(2Mb\)](#)
- [About Canopy Advantage](#)
- [Canopy AES overview](#)

Canopy Part Number	● 5251SMBC
Description	● Canopy 5.2 Ghz Subscriber Module Advantage with AES
Market Availability	● North America
Signaling Rate	● 20 Mbps Maximum
Typical LOS Range	● 2 Mi Max
Typical Aggregate Useful Throughput	● 14 Mbps Maximum
Frequency range of band	● U-NII 5250-5350 MHz
Non-overlapping Channels	● 3
Channel Width	● 20 MHz
Modulation Type	● High Index 2-level and 4-level Frequency Shift Keying (FSK) optimized for interference rejection
Channel Spacing	● configurable on 5 MHz increments
Encryption	● AES capable
Latency	● 5 - 7 msec
Carrier to Interference ratio (C/I)	● ~3dB @ 10 Mbps, ~10dB @ 20 Mbps at -65dBm
Nominal Receiver Sensitivity (dbm typical)	● -86 dBm @ 10 Mbps, -79dBm @ 20 Mbps
Antenna Gain (dB)	● 7 dBi
EIRP (dB)	● 30 dBm
Equivalent Isotropic Radiated Power (EIRP)	● 1 W
DC Power (typical)	● 0.3 A @ 24 VDC = 7.2 W
Antenna Beam Width	● 3 dB antenna beam width 60 degrees, Azimuth and Elevation
Mean Time Between Failure (MTBF)	● 40 yr
Temperature	● -40° C to +55° C (-40° F to +131° F)
Wind Survival	● 190 km/hr (118 miles/hr)
Dimensions	● 11.75 in H x 3.4 in W x 3.4 in D (29.9 cm H x 8.6 cm W x 8.6 cm D)
Weight	● .45 kg (1 lb)
Access Method	● Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)
Interface	● 10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant)
Protocols Used	● IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP
Network Management	● HTTP, TELNET, FTP, SNMP Version 2c
FCC ID	● ABZ89FC3789
Industry Canada Certification Number	● 109W-5200
NYCE	● 0202CE08128

Specifications subject to change without notice