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[Motorola Canopy Point to Multipoint 2.4 Ghz Series - Product Specifications](#)

### 2401SMBC Canopy 2.4 Ghz Subscriber Module Classic With AES

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 \(2Mb\)](#)

<b>Canopy Part Number</b>	● 2401SMBC
<b>Description</b>	● <b>Canopy 2.4 Ghz Subscriber Module Classic With AES</b>
<b>Market Availability</b>	● North America, South America, Asia
<b>Signaling Rate</b>	● 10 Mbps, 20 Mbps with Advantage AP
<b>Typical LOS Range</b>	● 5 mi (8 km), 15 mi (24 km) with reflector
<b>Typical Aggregate Useful Throughput</b>	● 7 Mbps
<b>Frequency range of band</b>	● ISM 2400-2483.5 MHz
<b>Non-overlapping Channels</b>	● 3
<b>Channel Width</b>	● 20 MHz
<b>Modulation Type</b>	● High Index 2-level and 4-level Frequency Shift Keying (FSK) optimized for interference rejection
<b>Channel Spacing</b>	● configurable on 2.5 MHz increments
<b>Encryption</b>	● FIPS 197 certified AES capable
<b>Latency</b>	● 6 msec with Advantage AP, 15 msec with Canopy AP
<b>Carrier to Interference ratio (C/I)</b>	● ~3dB @ 10 Mbps, ~10dB @ 20 Mbps at -65dBm
<b>Nominal Receiver Sensitivity (dbm typical)</b>	● -86 dBm
<b>Antenna Gain (dB)</b>	● 8 dBi
<b>EIRP (dB)</b>	● Adjustable
<b>Equivalent Isotropic Radiated Power (EIRP)</b>	● Adjustable from 10 mW to 2.0 W
<b>DC Power (typical)</b>	● 0.3 A @ 24 VDC = 7.2 W
<b>Antenna Beam Width</b>	● 3 dB antenna beam width 60 degrees, Azimuth and Elevation
<b>Mean Time Between Failure (MTBF)</b>	● 40 yr
<b>Temperature</b>	● -40° C to +55° C (-40° F to +131° F)
<b>Wind Survival</b>	● 190 km/hr (118 miles/hr)
<b>Dimensions</b>	● 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)
<b>Weight</b>	● .45 kg (1 lb)
<b>Access Method</b>	● Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)
<b>Interface</b>	● 10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant)
<b>Protocols Used</b>	● IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP
<b>Network Management</b>	● HTTP, TELNET, FTP, SNMP Version 2c
<b>FCC ID</b>	● ABZ89FC5808
<b>Industry Canada Certification Number</b>	● 109W-2400
<b>FIPS</b>	● AES product is FIPS 197 certified

**Specifications subject to change without notice**