



2451SMBC Canopy 2.4 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 \(2Mb\)](#)

Canopy Part Number	•	2451SMBC
Description	•	Canopy 2.4 Ghz Subscriber Module Advantage with AES
Market Availability	•	North America, South America, Asia
Signaling Rate	•	20 Mbps Maximum
Typical LOS Range	•	5 mi (8 km), 15 mi (24 km) with reflector
Typical Aggregate Useful Throughput	•	14 Mbps to 2.5 Mi
Frequency range of band	•	ISM 2400-2483.5 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 2.5 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)	•	8 dBi
EIRP (dB)	•	Adjustable
Equivalent Isotropic Radiated Power (EIRP)	•	Adjustable to 2W maximum
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	•	ABZ89FC5808
Industry Canada Certification Number	•	109W-2400