

Specifications Sheet



Motorola Canopy CSM 24100: 2.4 GHz SM AES



Canopy Part Number	2401SM
Description	CSM 24100: 2.4 GHz SM AES
Market Availability	North America, South America, Asia
Signaling Rate	10 Mbps, 20 Mbps with Advantage AP
Typical LOS Range	5 mi (8 km), 15 mi (24 km) with reflector
Typical Aggregate Useful Throughput	7 Mbps
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	FIPS 197 certified AES capable
Latency	6 msec with Advantage AP, 15 msec with Canopy AP
Carrier to Interference ratio (C/I)	-3dB @ 10 Mbps, -10dB @ 20 Mbps at -65dBm
Nominal Receiver Sensitivity (dbm typical)	-86 dBm
Antenna Gain (dBi)	8 dBi
EIRP (dBm)	Adjustable
Equivalent Isotropic Radiated Power (EIRP)	Adjustable from 10 mW to 2.0 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	ABZ89FC5808
Industry Canada Certification Number	109W-2400
FIPS	AES product is FIPS 197 certified

Specifications subject to change without notice.