

SPECIFICATIONS SHEET
MOTOROLA WIRELESS BROADBAND
Point-to-Multipoint Solutions
CSM 35500 Subscriber Module



Part Number	3540SM
Description	3.5GHz OFDM Subscriber Module with integrated antenna
Typical Aggregate Useful Throughput	1X: 4.5 Mbps 2X: 9.0 Mbps 3X: 13.5 Mbps
Modulation Level (Adaptive)	1X = QPSK 2X = 16QAM 3X = 64QAM
Forward Error Correction	(3/4) Reed-Solomon block coding
ARQ	Yes
Quality of Service	DiffServ QoS
Frequency range of band	3.4GHz – 3.6GHz
Non-overlapping Channels	Up to 14(assuming 7MHz channel separation for guard band)
Channel Width	7.0 MHz
Channel Spacing	Configurable on 0.25 MHz increments
Encryption	DES
Latency	12-15 ms round trip
Nominal Receiver Sensitivity	1X: -90 dBm 2X: -78 dBm 3X: -70 dBm
Polarization	Vertical
Transmit Power (dBm)	Auto transmit power control by AP
Antenna Gain (dB)	17 dBi
EIRP (dBm)	42 dBm
DC Power (typical)	< 30W at 56 VDC
Antenna Beam Width	30° horizontal 40° elevation 3 dB antenna pattern
GPS Synchronization	Yes
Mean Time Between Failure (MTBF)	>40 years
Temperature	-40°C to +55°C (-40°F to +131°F) 0% – 95% relative humidity, non-condensing
Wind Survival	190 km/hour (118 miles/hour)
Dimensions	330 x 195 x 140mm
Weight	2.2kg
Interface	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP, PPPoE(SM only)
Network Management	HTTP, Telnet, FTP, SNMPv2c (compatible with Prizm 3.1 or later and CNUT 3.1 and later)
CE	CE mark

Specifications subject to change without notice.