

**SPECIFICATIONS SHEET**  
**MOTOROLA WIRELESS BROADBAND**  
**Point-to-Multipoint Solutions**  
**CAP 35500 Access Point Module**



<b>Part Number</b>	<b>3540AP</b>
<b>Description</b>	<b>3.5GHz OFDM Access Point with integrated 4 - sector antenna</b>
<b>Typical Aggregate Useful Throughput</b>	1X: 4.5 Mbps 2X: 9.0 Mbps 3X: 13.5 Mbps
<b>Modulation Level (Adaptive)</b>	1X = QPSK 2X = 16QAM 3X = 64QAM
<b>Forward Error Correction</b>	<b>(3/4) Reed-Solomon block coding</b>
<b>ARQ</b>	Yes
<b>Quality of Service</b>	DiffServ QoS
<b>Frequency range of band</b>	3.4GHz – 3.6GHz
<b>Non-overlapping Channels</b>	Up to 14 (assuming 7MHz channel separation for guard band)
<b>Channel Width</b>	7.0 MHz
<b>Channel Spacing</b>	Configurable on 0.25 MHz increments
<b>Encryption</b>	DES
<b>Latency</b>	12-15 ms round trip
<b>Nominal Receiver Sensitivity</b>	1X: -90 dBm 2X: -78 dBm 3X: -70 dBm
<b>Polarization</b>	Vertical
<b>Transmit Power (dBm)</b>	Maximum +25dBm
<b>Antenna Gain (dB)</b>	17 dBi
<b>EIRP (dBm)</b>	42 dBm
<b>DC Power (typical)</b>	< 30W at 56 VDC
<b>Antenna Beam Width</b>	4 sector application (actual 3 dB antenna pattern: 60° horizontal; 7° elevation; null fill down to -25 degrees)
<b>GPS Synchronization</b>	Yes
<b>Mean Time Between Failure (MTBF)</b>	>40 years
<b>Temperature</b>	-40°C to +55°C (-40°F to +131°F) 0% – 95% relative humidity, non-condensing
<b>Wind Survival</b>	190 km/hour (118 miles/hour)
<b>Dimensions</b>	1324 x 160 x 115mm
<b>Weight</b>	7.2kg
<b>Interface</b>	10/100BaseT, half/full duplex, rate auto negotiated (802.3 compliant)
<b>Protocols Used</b>	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP, PPPoE(SM only)
<b>Network Management</b>	HTTP, Telnet, FTP, SNMPv2c (compatible with Prizm 3.1 or later and CNUT 3.1 and later)
<b>CE</b>	CE mark

Specifications subject to change without notice.

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**CSM 35500 Subscriber Module**



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

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