

Motorola Wireless Broadband

Point-to-Multipoint CAP 09130 Access Point



**CAP09130
Integrated**

The Motorola Wireless Broadband Point-to-Multipoint (PMP) CAP 09130 Access Point is the ideal solution for developing, enhancing and extending advanced broadband networks to provide cost effective near Line of Sight (nLOS) and Non Line of Sight (NLOS) connectivity for residential broadband access.

Motorola Wireless Broadband products combine field-proven toughness with exceptional performance, security, ease-of-use and cost effectiveness. CAP 09130 modules are available with total throughput up to 4 Mbps for data, video and voice applications. Available as connectorized, with an integrated antenna, and with optional bandpass filters, CAP 09130 Access Points are the right choice for building or extending residential broadband connectivity.

Why Motorola Wireless Access Network Solutions are Superior

- **Industry Leading Interference Tolerance** – Motorola access network solutions provide an industry leading Carrier to Interference (C to I) ratio and utilize GPS synchronization to mitigate self interference.
- **Fast, Simple Installation** – Access Points and Subscriber Modules have easy to use alignment tools and do not require an equipment room or environment controlled area at the AP tower location.
- **Reliable Hardware Performance Over Time** – Motorola equipment operates with a passive heating and cooling system. This design achieves increased reliability and availability through extended periods of time.
- **Proven Throughput Performance** – Network equipment performance specifications are the results of actual field performance - not values measured in an indoor noise free lab environment.
- **Scalable as Subscriber Base Grows** – GPS synchronization enables operators to build networks that grow with demand as new subscribers are added and network density increases or as operators expand the network into new geography.



**CAP 09130
Connectorized**

PMP Access and Distribution Network



SPECIFICATION SHEET
Point-to-Multipoint CAP 09130 Access Point

**Motorola Wireless
Broadband Solutions**

Motorola's comprehensive portfolio of reliable and cost-effective wireless broadband solutions together with our WLAN solutions provide and extend coverage both indoors and outdoors. The Motorola Wireless Broadband portfolio offers high-speed Point-to-Point, Point-to-Multipoint, Mesh, WiFi and WiMAX networks that support data, voice and video communications, enabling a broad range of fixed and mobile applications for public and private systems. With Motorola's innovative software solutions, customers can design, deploy and manage a broadband network, maximizing uptime and reliability while lowering installation costs.

**CAP 09130 Access
Points are compatible
with the CSM 09130
Subscriber Modules**

CAP 09130

FREQUENCY	900 MHz
PERFORMANCE	
Signaling Rate	6 Mbps
Typical Aggregate Useful Throughput	4 Mbps
Latency	< 15 msec
Mean Time Between Failure	Greater than 40 years
Modulation Type	High Index 2-level and 4-level Frequency Shift Keying (FSK) optimized for interference rejection
Access Method	Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)
SPECTRUM	
Frequency Range of Band	902-928 MHz
Channel Width	8 MHz
Non-Overlapping Channels	3
Channel Spacing	1 MHz
SECURITY	
Encryption	DES, AES Optional FIPS 197 Certified
LINK BUDGET	
Carrier to Interference Ratio (C/I)	~3dB @ 4 Mbps
Nominal Receiver Sensitivity (dBm typical)	-90 dBm
Antenna Gain (dBi)	12 dBi (integrated), also available as a connectorized version with N Type connector
EIRP (dBm)	36 dBm
DC Power (typical)	9 W
ANTENNA	
Antenna Beam Width	60 degree beam width azimuth and 35 degree elevation ~12.5 dBi
Polarization	Horizontal, connectorized version available
PHYSICAL	
Temperature	-40° F to +131° F (-40° C to +55° C)
Wind Survival	118 miles/hr (190 km/hr)
Dimensions	Integrated: 19.5 in H x 12 in W x 4.75 in D (50 cm H x 30 cm W x 12 cm D) Connectorized: 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	Integrated: 13.5 lb (6.1 kg) Connectorized: 1 lb (.45 kg)
INTERFACE	
Interface	10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant)
Protocols Used	IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP, PPPoE
Network Management	HTTP, TELNET, FTP, SNMP Version 2c
VLAN	802.1Q with 802.1p Priority
CERTIFICATIONS	
FCC ID	ABZ89FC5809
Industry Canada Certification Number	109W-9000



MOTOROLA

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