

# SPECS at a Glance

Parameter	Motorola Canopy™ Broadband Wireless Platform System Performance
<b>Bandwidth</b>	<ul style="list-style-type: none"> <li>&gt; The system bit rate is 10 Mbps.</li> <li>&gt; Canopy system throughput is optimized for heavy loading (see below: Latency Control), so the throughput does not degrade as more subscribers are added. The measurable throughput is 7.5 Mbps point-to-point, 6.2 Mbps point-to-multipoint regardless of number of subscribers or average load.</li> </ul>
<b>Latency Control</b>	<ul style="list-style-type: none"> <li>&gt; The Canopy solution delivers consistent packet latency of 20 ms, regardless of loading.</li> <li>&gt; To support QoS VoIP an access system must have a mechanism to prioritize VoIP packets as well as provide a consistent latency under any load. The combination of the Canopy system's high priority channel for QoS sensitive IP packets and its unique ability to insure consistent round trip latency of 20 ms, makes the Canopy solution an ideal network for delivery of QoS-based services such as voice and video.</li> </ul>
<b>Carrier to Interference</b>	<ul style="list-style-type: none"> <li>&gt; All Canopy radios are tested at the factory to meet 3 dB carrier to interference. The nominal C/I of Canopy radios, based on parametric testing is ~2 dB. This is the lowest in the industry and a key reason that the Canopy platform is the most robust solution in the face of external interference.</li> </ul>
<b>Range</b>	<ul style="list-style-type: none"> <li>&gt; The point-to-multipoint range is 10 miles and the point-to-point range is 35 miles. The "robustness" of the radio solution is best measured using C/I (Carrier to Interference Ratio). Motorola tests all Canopy radios.</li> </ul>
<b>Users/AP</b>	<ul style="list-style-type: none"> <li>&gt; The Canopy solution supports up to 200 Subscriber Modules per AP and 1200 per 6 sector AP cluster.</li> </ul>
<b>Non-Overlapping Channels</b>	<ul style="list-style-type: none"> <li>&gt; The Canopy solution currently offers 7 non-overlapping channels of operation (3 at 5.2 GHz and 4 at 5.7 GHz) and uses three non-overlapping channels twice in every AP cluster to support 6 APs.</li> <li>&gt; A Canopy system can support two (2) six-sector AP clusters and a 5.7 GHz backhaul at a single physical site.</li> </ul>
<b>Dynamic Bandwidth Control</b>	<ul style="list-style-type: none"> <li>&gt; The Canopy solution offers Dynamic Bandwidth Control on a per AP or a per user basis through the use of the Canopy Bandwidth Authentication Manager.</li> </ul>
<b>System Synchronization</b>	<ul style="list-style-type: none"> <li>&gt; GPS Synchronization is used in the Canopy system to eliminate system self-interference. This unique capability gives a system operator the ability to locate a Canopy AP anywhere it is needed to increase system coverage and/or capacity.</li> </ul>
<b>Product Distribution and Support</b>	<ul style="list-style-type: none"> <li>&gt; The Canopy platform is distributed through Authorized Canopy Resellers and a number of distributors to ensure that end customers can get product and support when and where they need it.</li> </ul>
<b>User Interface for Radio</b>	<ul style="list-style-type: none"> <li>&gt; All Canopy radios are equipped with a Web Server built-in to the radio. This supports an intuitive local interface for installation as well as providing the same interface for remote management. The Canopy platform also supports Telnet, FTP, and SNMP for machine interfaces to central servers.</li> </ul>

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