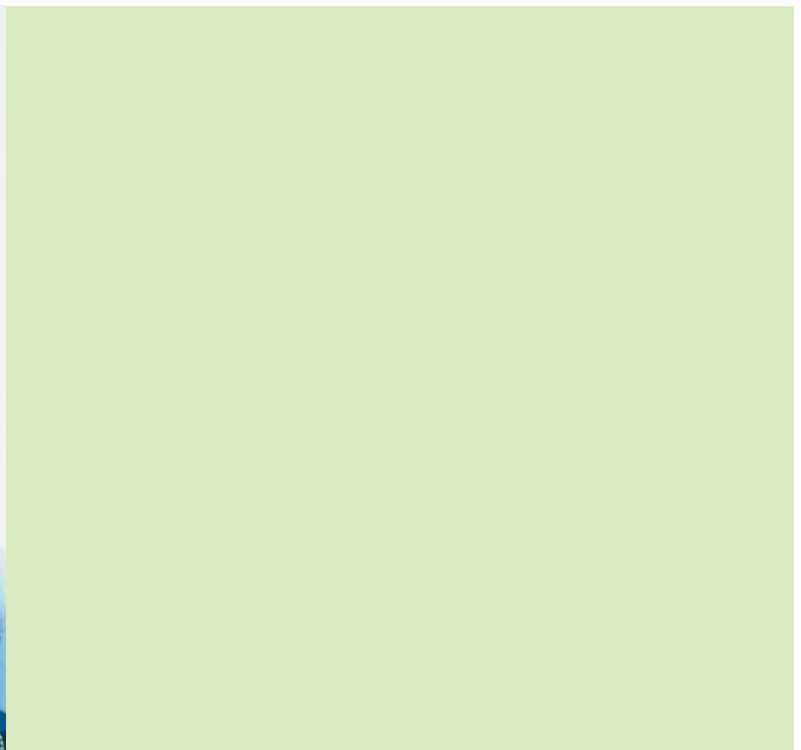
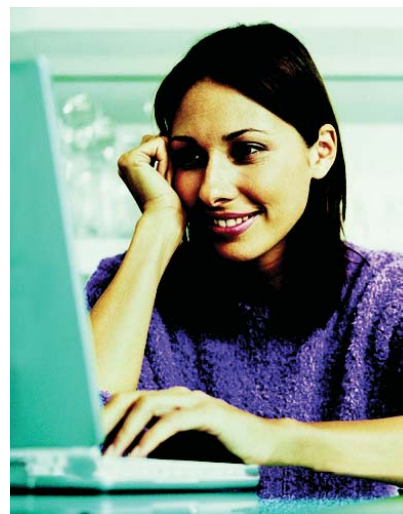
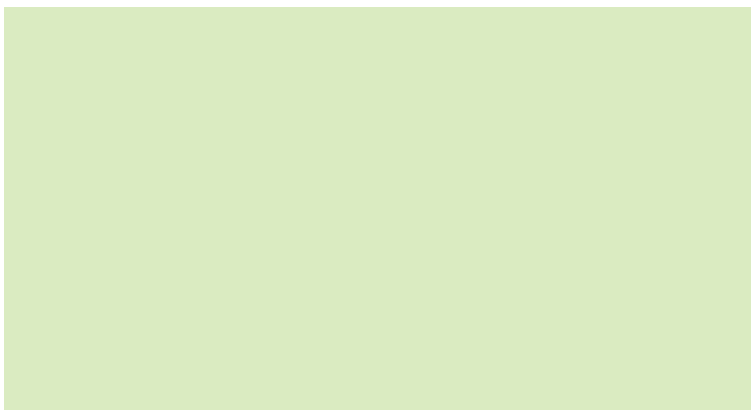


# Motorola Wireless Networking Solutions

Products at a Glance



2006 Volume 2



# WAN — Outdoor Products

Product	CANOPY ACCESS POINT	CANOPY ADVANTAGE ACCESS POINT																																
<b>Motorola Part Number</b>	<p><b>DES ONLY</b></p> <table border="0"> <tr><td>2400APBC</td><td>2.4 GHz</td></tr> <tr><td>5200APBC</td><td>5.2 GHz</td></tr> <tr><td>5700APBC</td><td>5.7 GHz</td></tr> <tr><td>9000APBC*</td><td>900 MHz</td></tr> <tr><td>9000APCBC**</td><td>900 MHz</td></tr> </table> <p><b>AES (128-BIT ENCRYPTION)<sup>1</sup></b></p> <table border="0"> <tr><td>2401APBC</td><td>2.4 GHz</td></tr> <tr><td>5201APBC</td><td>5.2 GHz</td></tr> <tr><td>5701APBC</td><td>5.7 GHz</td></tr> <tr><td>9001APBC*</td><td>900 MHz</td></tr> <tr><td>9001APCBC**</td><td>900 MHz</td></tr> </table> <p>*Ships standard with integrated antenna.                      **Available with optional connectorized antenna.  <sup>1</sup> All components in the Motorola Canopy System must be AES compatible.</p>	2400APBC	2.4 GHz	5200APBC	5.2 GHz	5700APBC	5.7 GHz	9000APBC*	900 MHz	9000APCBC**	900 MHz	2401APBC	2.4 GHz	5201APBC	5.2 GHz	5701APBC	5.7 GHz	9001APBC*	900 MHz	9001APCBC**	900 MHz	<p><b>DES ONLY</b></p> <table border="0"> <tr><td>2450APBC</td><td>2.4 GHz, Advantage AP</td></tr> <tr><td>5250APBC</td><td>5.2 GHz, Advantage AP</td></tr> <tr><td>5750APBC</td><td>5.7 GHz, Advantage AP</td></tr> </table> <p><b>WITH AES (128-BIT ENCRYPTION)<sup>1</sup></b></p> <table border="0"> <tr><td>2451APBC</td><td>2.4 GHz Advantage AP</td></tr> <tr><td>5251APBC</td><td>5.2 GHz Advantage AP</td></tr> <tr><td>5751APBC</td><td>5.7 GHz Advantage AP</td></tr> </table> <p><sup>1</sup> All components in the Motorola Canopy System must be AES compatible.</p>	2450APBC	2.4 GHz, Advantage AP	5250APBC	5.2 GHz, Advantage AP	5750APBC	5.7 GHz, Advantage AP	2451APBC	2.4 GHz Advantage AP	5251APBC	5.2 GHz Advantage AP	5751APBC	5.7 GHz Advantage AP
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<b>Features and Benefits</b>	<ul style="list-style-type: none"> <li>Affordable high-speed data access</li> <li>No additional software to install</li> <li>Upload and download speeds as fast or faster than dial-up, ISDN, DSL, MMDS, cable or satellite access</li> <li>No need to run overhead and in-ground wire</li> <li>Easily interfaces with your existing Local Area Network (LAN)</li> <li>Security with over-the-air encryption scrambles data bits and prevents interception</li> </ul>	<ul style="list-style-type: none"> <li>Increased throughput, up to 14 Mbps, when used with Advantage SM in point-to-multipoint sectors</li> <li>Lower latency with Advantage AP, reduced from 20 msec to 6 msec, enables support of VoIP and online gaming</li> <li>Committed Information Rate (CIR), network operators can meet Service Level Agreements (SLA) and configure minimum throughput to all subscribers in sector</li> <li>Software Defined Radio not dependent on chip set, upgradeable</li> <li>Network Operators can extend system life through software enhancements</li> </ul>																																
<b>Applications</b>	<p>For underserved areas or locations where infrastructure is non-existent.</p> <p><b>School campuses</b>—broadband off campus access to university network  <b>Enterprises</b>—affordable and productive access to corporate campuses  <b>Security</b>—video camera interface to improve parking lot monitoring  <b>ISPs</b>—rural service provider can expand internet access with a cost-effective system to meet current and future needs  <b>Healthcare</b>—manage Digital Imaging and Communications in Medicine (DICOM) applications from image devices, such as ultrasound, nuclear medicine, MRI and others</p>	<ul style="list-style-type: none"> <li>Carrier network operators can offer and provide VoIP, video and high throughput services to customers as alternative to DSL or T1/E1 services</li> <li>Enterprises, Educational Facilities and Healthcare Providers</li> <li>Private network operators can support distance learning, video conferencing or high speed data transfer on a private, secure network</li> <li>Fraction of the cost of subscribing to DSL or T1 services</li> </ul>																																
<b>Ships with</b>	<p>Other components may be required, depending upon application and/or configuration  <b>Power supply sold separately</b></p>	<p>Other components may be required, depending upon application and/or configuration  <b>Power supply sold separately</b></p>																																
<b>Over the Air Data Rate</b>	<p>10 Mbps at 2.4 GHz, 5.2 GHz, or 5.7 GHz, NA at 900 MHz</p>	<p>10 Mbps or 20 Mbps depending on Line of Site range</p>																																
<b>Aggregate Throughput</b>	<p>6 Mbps at 2.4 GHz, 5.2 GHz, or 5.7 GHz, 2.2 Mbps at 900 MHz</p>	<p>Up to 14 Mbps</p>																																
<b>Range</b>	<ul style="list-style-type: none"> <li>Up to 40 miles (64.4 km) at 900 MHz, with integrated antenna, clear Line of Site</li> <li>Up to 15 miles (24 km) at 2.4 GHz, with passive reflector on the Subscriber Module side, clear Line of Site</li> <li>Up to 10 miles (16 km) at 5.7 GHz, with passive reflector on the Subscriber Module side, clear Line of Site</li> <li>Up to 5 miles (8 km) at 2.4 GHz, w/integrated antenna, clear Line of Site</li> <li>Up to 2 miles (3.2 km) at 5.2 GHz, w/integrated antenna, clear Line of Site</li> </ul>	<ul style="list-style-type: none"> <li>At 5.2 and 5.7 GHz 14 Mbps with Line of Site of 1 mile and 7 Mbps with Line of Site of 2 miles</li> <li>At 2.4 GHz 14 Mbps with Line of Site of 2 miles and 7Mbps with Line of Site of 5 miles</li> </ul>																																
<b>Frequency</b>	<p>Available in 2.4 GHz, 5.2 GHz, 5.7 GHz or 900 MHz                      See part numbers listed above</p>	<p>Available in 2.4 GHz, 5.2 GHz and 5.7 GHz                      See part numbers listed above</p>																																
<b>Security</b>	<p>Available in Data Encryption Standard (DES) or Advanced Encryption Standard (AES) 128-bit key*                      See part numbers listed above</p>	<p>Available in Data Encryption Standard (DES) or Advanced Encryption Standard (AES) 128-bit key*                      See part numbers listed above</p>																																



**CANOPY  
SUBSCRIBER MODULES**

**DES ONLY**

2400SMBC	2.4 GHz
5200SMBC	5.2 GHz
5700SMBC	5.7 GHz
9000SMBC*	900 MHz
9000SMCBC**	900 MHz

**AES (128-BIT ENCRYPTION)<sup>1</sup>**

2401SMBC	2.4 GHz
5201SMBC	5.2 GHz
5701SMBC	5.7 GHz
9001SMBC*	900 MHz
9001SMCBC**	900 MHz



\*Ships standard with integrated antenna.  
 \*\*Available with optional connectorized antenna.  
<sup>1</sup> All components in the Motorola Canopy System must be AES compatible.

- Affordable high-speed data access
- Small and easy-to-install Subscriber Module
- No additional software to install
- Upload and download speeds as fast or faster than dial-up, ISDN, DSL, MMDS, cable or satellite access
- No need to run overhead and in-ground wire
- Easily interfaces with your existing Local Area Network (LAN)
- Security with over-the-air encryption scrambles data bits, preventing interception

For underserved areas or locations where infrastructure is non-existent.

- School campuses**—broadband off campus access to university network
- Enterprises**—affordable and productive access to corporate campuses
- Security**—video camera interface to improve parking lot monitoring
- ISPs**—rural service provider can expand internet access with a cost-effective system to meet current and future needs
- Healthcare**—manage Digital Imaging and Communications in Medicine (DICOM) applications from image devices, such as ultrasound, nuclear medicine, MRI and others

Other components may be required, depending upon application and/or configuration  
**Power supply sold separately**

10 Mbps at 2.4 GHz, 5.2 GHz, or 5.7 GHz, NA at 900 MHz

4 Mbps at 2.4 GHz, 5.2 GHz, or 5.7 GHz, 2.2 Mbps at 900 MHz

- Up to 40 miles (64.4 km) at 900 MHz, with integrated antenna, clear Line of Site
- Up to 15 miles (24 km) at 2.4 GHz, with passive reflector on the Subscriber Module side, clear Line of Site
- Up to 10 miles (16 km) at 5.7 GHz, with passive reflector on the Subscriber Module side, clear Line of Site
- Up to 5 miles (8 km) at 2.4 GHz, with integrated antenna, clear Line of Site
- Up to 2 miles (3.2 km) at 5.2 GHz, with integrated antenna, clear Line of Site

Available in 2.4 GHz, 5.2 GHz, 5.7 GHz or 900 MHz  
 See part numbers listed above

Available in Data Encryption Standard (DES) or Advanced Encryption Standard (AES) 128-bit key\*  
 See part numbers listed above

**CANOPY ADVANTAGE  
SUBSCRIBER MODULES**

**DES ONLY**

2450SMBC	2.4 GHz, Advantage SM
5250SMBC	5.2 GHz, Advantage SM
5750SMBC	5.7 GHz, Advantage SM

**WITH AES (128-BIT ENCRYPTION)<sup>1</sup>**

2451SMBC	2.4 GHz, Advantage SM
5251SMBC	5.2 GHz, Advantage SM
5751SMBC	5.7 GHz, Advantage SM



<sup>1</sup> All components in the Motorola Canopy System must be AES compatible.

- Operators can shape bandwidth offerings and provide up to 14 Mbps sustained aggregate throughput to users located close to the AP
- Operators can offer premium services using advanced bandwidth shaping
- VoIP customers will experience reliable service with (CIF), Video content and Video Surveillance, VLANs conserve bandwidth
- Enables business case to offer broadband services to a community
- Enables operators to offer premium services: VoIP, video, high speed data
- Enables operators to offer high throughput, competing with DSL, cable, T1/E1
- Compatible with existing Canopy SM investments

• Carrier network operators can offer and provide VoIP, video and high throughput services to customers as alternative to DSL or T1/E1 services

- Enterprises, Educational Facilities and Healthcare Providers
- Private network operators can support distance learning, video conferencing or high speed data transfer on a private, secure network
- Fraction of the cost of subscribing to DSL or T1 services

Other components may be required, depending upon application and/or configuration  
**Power supply sold separately**

10 Mbps or 20 Mbps depending on Line of Site range

Up to 14 Mbps

- At 5.2 and 5.7 GHz 14 Mbps with Line of Site of 1 mile and 7 Mbps with Line of Site of 2 miles
- At 2.4 GHz 14 Mbps with Line of Site of 2 miles and 7 Mbps with Line of Site of 5 miles

Available in 2.4 GHz, 5.2 GHz and 5.7 GHz  
 See part numbers listed above

Available in Data Encryption Standard (DES) or Advanced Encryption Standard (AES) 128-bit key\*

**CANOPY  
LITE SUBSCRIBER MODULES**

**DES ONLY**  
BP5760SM25BC 5.7 GHz,  
Canopy Lite SM



**CANOPY  
BACKHAUL MODULE**

**DES ONLY**  
2400BHBC 2.4 GHz, 10 Mbps  
2400BHRFBC 2.4 GHz, 10 Mbps  
with Reflector Kit  
2400BH20BC 2.4 GHz, 20 Mbps  
2400BHRF20BC 2.4 GHz, 20 Mbps  
with Reflector Kit  
5200BHBC 5.2 GHz, 10 Mbps  
5210BHRFBC 5.2 GHz, 10 Mbps  
Extended Range  
with Reflector Kit  
5210BHRF20BC 5.2 GHz, 20 Mbps  
Extended Range  
with Reflector Kit  
5700BHRFBC 5.7 GHz, 10 Mbps  
with Reflector Kit  
5700BHRF20BC 5.7 GHz, 20 Mbps  
with Reflector Kit  
BP5730BH20-2BB\* 5.7 GHz, 30 Mbps  
BP5730BHC20-2BB\*\* 5.7 GHz, 30 Mbps  
BP5730BH-2BB\* 5.7 GHz, 60 Mbps  
BP5730BHC-2BB\*\* 5.7 GHz, 60 Mbps  
BP5830BH15-2\* 5.7 GHz, 150 Mbps  
BP5830BHC15-2\*\* 5.7 GHz, 150 Mbps  
BP5830BH-2AA\* 5.7 GHz, 300 Mbps  
BP5830BHC-2AA\*\* 5.7 GHz, 300 Mbps



**AES (128-BIT ENCRYPTION)<sup>1</sup>**  
2401BHBC 2.4 GHz, 10 Mbps  
2401BHRFBC 2.4 GHz, 10 Mbps  
with Reflector Kit  
5201BHBC 5.2 GHz, 10 Mbps  
5211BHRFBC 5.2 GHz, 10 Mbps  
Extended Range  
Backhaul with  
Reflector Kit  
5701BHBC 5.7 GHz, 10 Mbps  
5701BHRFBC 5.7 GHz, 10 Mbps  
with Reflector Kit

Note: Canopy Lite SM requires the Canopy Advantage Access Point function in the network along with PrizmEMS & BAM. SM only available in 25 pack.

\* Ships standard with integrated antenna.

\*\* Available with optional connectorized antenna.

Note: The 30, 60, 150 and 300 Mbps BH units ship in pairs unless otherwise noted.

<sup>1</sup> All components in the Motorola Canopy System must be AES compatible.

- Low Cost
- Proven reliability and interference mitigation for enhanced quality and performance
- Scalability delivered by the Canopy system's GPS synchronization
- Software upgradeable
- Enhanced security: DES encryption and authentication offered as an option via Canopy Bandwidth and Authentication Manager (BAM)

- Affordable high-speed data access
- No additional software to install
- Upload and download speeds as fast or faster than dial-up, ISDN, DSL, MMDS, cable or satellite access
- No need to run overhead and in-ground wire
- Easily interfaces with your existing Local Area Network (LAN)
- Security with over-the-air encryption scrambles data bits and prevents interception

**For ISPs and Network Operators**

- Enables service providers to increase broadband penetration in markets where high cost is a major barrier
- Allows for simple, quick and profitable conversion of dial-up subscribers to broadband

**For Emerging Markets**

- Residential Broadband Services

For underserved areas or locations where infrastructure is non-existent.

**School campuses**—broadband off campus access to university network

**Enterprises**—affordable and productive access to corporate campuses

**Security**—video camera interface to improve parking lot monitoring

**ISPs**—rural service provider can expand internet access with a cost-effective system to meet current and future needs

**Healthcare**—manage Digital Imaging and Communications in Medicine (DICOM) applications from image devices, like ultrasound, nuclear medicine, MRI and others

Other components may be required, depending upon application and/or configuration  
**Power supply sold separately**

Other components may be required, depending upon application and/or configuration  
Power supply included for the 30, 60, 150 and 300 Backhaul Module  
**Power supply sold separately for all other models**

512 Kbps

10 Mbps, 20 Mbps, 30 Mbps, 60 Mbps, 150 Mbps, or 300 Mbps available

512 kbps throughput with 768 kbps burst and a maximum of 100 kbps full duplex Committed Information Rate (CIR)

7.5 Mbps, 14 Mbps, 21 Mbps, 43 Mbps, 150 Mbps or 300 Mbps

2 Miles Line of Site

- Up to 6 miles non-LoS, up to 25 near LoS, up to 40 miles LoS with 5.7 GHz, 30, 60 or 300 Mbps
- Up to 6 miles non-LoS, up to 25 near LoS, up to 124 miles LoS with 5.7 GHz 150 Mbps Backhaul
- Up to 35 miles (56 km), at 2.4/5.7 GHz, at 10/20 Mbps, with passive reflector both sides, clear LoS
- Up to 10 miles (16 km) at 5.2 GHz/10 Mbps, with passive reflector both sides, clear LoS
- Up to 5 miles (8 km) at 2.4 GHz/10 Mbps or 5.2 GHz/20 Mbps, with integrated antenna, clear LoS
- Up to 3 miles (4.8 km) at 2.4 GHz/20 Mbps with integrated antenna, clear LoS
- Up to 2 miles (3.2 km) at 5.2/5.7 GHz at 10 Mbps, with integrated antenna, clear LoS
- Up to 1 mile (1.6 km) at 5.2/5.7 GHz at 20 Mbps, with integrated antenna, clear LoS

Available in 5.7 GHz with eventual full range of frequencies supported by Canopy platform

Available in 2.4 GHz or 5.2 GHz or 5.7 GHz  
See part numbers listed above

Available in Data Encryption Standard (DES)

Available in Data Encryption Standard (DES)  
or Advanced Encryption Standard (AES) 128-bit key<sup>1</sup>

# LAN — Indoor Products



Product	WiAP-110	WiAP-200
<b>Motorola Part Number</b>	HK1134A	RDH4293A
<b>Features and Benefits</b>	<p>Next generation Access Point brings QoS and performance to mid-size enterprises.</p> <ul style="list-style-type: none"> <li>• New level of intelligent rogue Access Point and client detection</li> <li>• Sophisticated hotspot interfaces with Radius integration</li> <li>• Pre-standard IEEE 802.11e Quality of Service support for latency sensitive applications</li> <li>• Plenum rating</li> <li>• Supports latest security standards including IEEE 802.11i and AES encryption</li> </ul>	<ul style="list-style-type: none"> <li>• Highest performance enterprise-class access point (AP) pre-configured with tri-mode (simultaneous 802.11b/g/a operation) for comprehensive 2.4 and 5 GHz rogue AP detection and automatic support of all Wi-Fi client types</li> <li>• Automatic, universal Wi-Fi client interoperability</li> <li>• 40 Mbps throughput with 802.11g and 802.11a simultaneous operation</li> <li>• Built-in rogue AP detection for both 802.11b/g and 802.11a access points</li> <li>• AP-to-AP communication for reaching areas without Ethernet wiring</li> <li>• Unique 802.11a scalability - external antenna connector for increased transmit distance</li> <li>• Twice the memory of competing APs, ensuring software upgrade capacity</li> <li>• Tools to speed installation and optimization: automatic channel selection, adjustable transmit power, external antenna connectors</li> <li>• Extensive RADIUS accounting support</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• <b>Small and medium businesses or government offices</b></li> <li>• <b>Education:</b> K-12 educational institutions, non-profit organizations needing maximum mobility on a budget</li> <li>• <b>Universities:</b> provide flexible, immediate mobile faculty and student connectivity in dorms, classrooms, libraries and campus quads</li> <li>• <b>Hospital and Medical clinics:</b> real time information system wide for better patient care and reduced errors</li> <li>• <b>Local, State and Federal agencies:</b> fast access to information to serve constituencies better</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Enterprise</b>—Mobile user productivity</li> <li>• <b>Healthcare</b>—Real-time patient charting</li> <li>• <b>Education</b>—Mobile faculty and student connectivity</li> <li>• <b>Government</b>—Remote access to constituency information</li> </ul>
<b>Ships with</b>	<ul style="list-style-type: none"> <li>• WiAP-110 802.11a, b or g Access Point</li> <li>• External antenna connector</li> <li>• Power supply and cord</li> <li>• Support for 802.3af Power Over Ethernet</li> </ul>	<ul style="list-style-type: none"> <li>• WiAP-200 802.11a/b/g Access Point</li> <li>• Power supply and support for Active Ethernet and IEEE 802.3af</li> <li>• Software and documentation</li> <li>• Cable cover and mounting bracket</li> </ul>
<b>Network Supported</b>	802.11b (11 Mbps) 802.11g (54 Mbps) 802.11a (54 Mbps)	802.11b (11 Mbps) 802.11g (54 Mbps) 802.11a (54 Mbps)
<b>Compliance</b>	US: FCC, UL, CE, Wi-Fi Canada: Industry Canada	US: FCC, UL, CE, Wi-Fi Canada: Industry Canada
<b>Security</b>	<ul style="list-style-type: none"> <li>• IEEE 802.1x mutual authentication</li> <li>• Dynamic per user per session rotating keys</li> <li>• 802.11i and AES</li> <li>• SNMPv, SNMPv2c and secure SNMPv3 management</li> <li>• Intra-cell blocking to prevent client to client snooping</li> <li>• Rogue Access Point detection, notification</li> <li>• 802.1x support (auto key management, user-based authentication)</li> <li>• Meets HIPAA requirements of privacy and security protection of patient data</li> <li>• Secure Management Interfaces SNMPv3 SSL, and SSH protect against unauthorized Access Point changes via the management interface</li> <li>• Multiple VLAN Support – Up to 16 separate VLANs per radio each able to support a different security setting</li> <li>• Auto configuration via DHCP Ensures new Access Points automatically receive correct configuration and prevents security vulnerabilities with deliberate resets</li> </ul>	<ul style="list-style-type: none"> <li>• Wired Equivalent Protocol (WEP)</li> <li>• IEEE 802.1x authentication compliant</li> <li>• Wi-Fi Protected Access (WPA) including 802.1x and dynamic TKIP encryption</li> <li>• Meets HIPAA requirements of privacy and security protection of patient data</li> <li>• Upgradeable to AES and 802.11i</li> <li>• Rogue Access Point detection</li> <li>• Secure Management Interfaces SNMPv3 and SSL protect against unauthorized Access Point changes via the management interface</li> <li>• Multiple VLAN Support—Up to 16 separate VLANs per radio each able to support a different security setting</li> <li>• Auto configuration via DHCP ensures new Access Points automatically receive correct configuration and prevents security vulnerabilities with deliberate resets</li> </ul>



<b>Product</b>	<b>WiAP-200M</b>
<b>Motorola Part Number</b>	RLN6274A
<b>Features and Benefits</b>	<ul style="list-style-type: none"> <li>• With the addition of Mesh, it enables mesh backhaul and Wi-Fi coverage on the same radio, while the second radio is used exclusively for Wi-Fi coverage</li> <li>• Twice the memory of competing APs, ensuring software upgrade capacity</li> <li>• Industry-leading throughput with 802.11g and 802.11a simultaneous operation</li> <li>• Super Mode allows Super Mode-capable clients to get double the data rate as standard clients while simultaneously allowing standard Wi-Fi clients to communicate with the access points</li> <li>• Robust RADIUS accounting and authorization interface enables detailed subscriber usage tracking</li> <li>• WMM/802.11e quality of service support for data, voice and video</li> <li>• Proactive security measures to protect your network- Intra cell blocking and traffic redirection to prevent subscriber-to-subscriber attacks</li> <li>• Self-forming and self-healing Mesh Creation Protocol automatically routes traffic through the best path as the units are added or removed from the network</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• <b>Local, State, Federal and Public Works Agencies (non mission critical):</b> Remote access to constituency information</li> <li>• <b>Healthcare:</b> Real-time patient charting</li> <li>• <b>Small and Medium Businesses:</b> Lowers infrastructure costs by not requiring Ethernet Cabling to every access point.</li> <li>• <b>Warehouse and Service Businesses</b></li> </ul>
<b>Ships with</b>	Other components may be required depending upon application and/or configuration
<b>Network Supported</b>	802.11b (11 Mbps), 802.11g (54 Mbps), and 802.11a (11 Mbps)
<b>Compliance</b>	US: FCC, UL, CE, Wi-Fi Canada: Industry Canada
<b>Security</b>	<ul style="list-style-type: none"> <li>• Intra-cell blocking and traffic redirection to prevent subscriber-to-subscriber attacks</li> <li>• Broadcast bandwidth throttling prevents broadcast attacks</li> <li>• Spanning tree protocol prevents network loops caused by subscribers connecting two or more CPE devices together.</li> <li>• IEEE 802.1x mutual authentication</li> <li>• Dynamic per-user, per-session rotating keys</li> <li>• Rogue access point detection and notification</li> <li>• Secure management interfaces: SNMPv3, SSL and SSH</li> </ul>

*For more information contact:*



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