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## Overview

Cisco® Aironet® 1130AG Series IEEE 802.11a/b/g access point AIR-AP1131AG-A-K9 provides high-capacity, high-security, enterprise-class features in an unobtrusive, office-class design, delivering WLAN access with the lowest total cost of ownership. With high-performing dual IEEE 802.11a and 802.11g radios, the Cisco Aironet 1130AG Series provides a combined capacity of up to 108 Mbps to meet the needs of growing WLANs. Hardware-assisted Advanced Encryption Standard (AES) or temporal key integrity protocol (TKIP) encryption provides uncompromised support for interoperable IEEE 802.11i, Wi-Fi Protected Access 2 (WPA2) or WPA security. The Cisco Aironet 1130AG Series uses radio and network management features for simplified deployment, along with built-in omnidirectional antennas that provide robust and predictable WLAN coverage for offices and similar RF environments. The competitively priced Cisco Aironet 1130AG Series is ready to install and easy to manage, reducing the cost of deployment and ongoing maintenance.

## Quick Spec

Figure 1 shows the appearance of AIR-AP1131AG-A-K9.

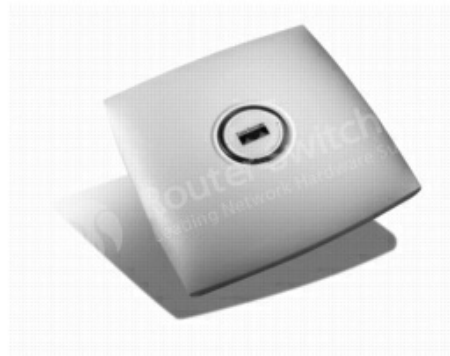


Table 1 shows the quick spec.

<b>Part Number</b>	AIR-AP1131AG-A-K9
<b>Product Description</b>	802.11a, .11g AP, Int Radios, Ants, FCC Cnfg 1130AG Series Access Points
<b>System Memory</b>	<ul style="list-style-type: none"> <li>• 32 MB RAM</li> <li>• 16 MB FLASH</li> </ul>
<b>Input Power Requirements</b>	<ul style="list-style-type: none"> <li>• 100-240 VAC; 50-60Hz (power supply)</li> <li>• 36-57 VDC (device)</li> </ul>
<b>Power Draw</b>	12.2W maximum
<b>Dimensions (H x W x D)</b>	7.5 in. x 7.5 in. x 1.3 in. (19.1 x 19.1 x 3.3 cm)
<b>Weight</b>	1.5 lb (0.67 kg)
<b>Network Standard</b>	IEEE 802.11a, 802.11b, and 802.11g
<b>Data Rates Supported</b>	<ul style="list-style-type: none"> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps</li> </ul>

## Compare to Similar Items

Table 2 shows the comparison between AIR-AP1131AG-A-K9 and AIR-LAP1131AG-C-K9.

<b>Part Number</b>	AIR-AP1131AG-A-K9	<a href="#">AIR-LAP1131AG-A-K9</a>
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<b>Product Description</b>	802.11a, .11g AP, Int Radios, Ants, FCC Cnfg 1130AG Series Access Points	802.11ag LWAPP AP Integrated Antennas FCC Cnfg 1130AG Series Access Points
<b>System Memory</b>	<ul style="list-style-type: none"> <li>• 32 MB RAM</li> <li>• 16 MB FLASH</li> </ul>	<ul style="list-style-type: none"> <li>• 32 MB RAM</li> <li>• 16 MB FLASH</li> </ul>
<b>Input Power Requirements</b>	<ul style="list-style-type: none"> <li>• 100-240 VAC; 50-60Hz (power supply)</li> <li>• 36-57 VDC (device)</li> </ul>	<ul style="list-style-type: none"> <li>• 100-240 VAC; 50-60Hz (power supply)</li> <li>• 36-57 VDC (device)</li> </ul>
<b>Power Draw</b>	12.2W maximum	12.2W maximum
<b>Dimensions (H x W x D)</b>	7.5 in. x 7.5 in. x 1.3 in. (19.1 x 19.1 x 3.3 cm)	7.5 in. x 7.5 in. x 1.3 in. (19.1 x 19.1 x 3.3 cm)
<b>Weight</b>	1.5 lb (0.67 kg)	1.5 lb (0.67 kg)

## Get more information

Do you have any question about the AIR-AP1131AG-A-K9?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

AIR-AP1131AG-A-K9 Specification	
<b>Part Number</b>	AIR-AP1131AG-A-K9
<b>Product Description</b>	802.11a, .11g AP, Int Radios, Ants, FCC Cnfg 1130AG Series Access Points
<b>Software</b>	Cisco Unified Wireless Network Software Release 4.0 or later.
<b>Data Rates Supported</b>	<ul style="list-style-type: none"> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps</li> </ul>
<b>Network Standard</b>	IEEE 802.11a, 802.11b, and 802.11g
<b>Uplink</b>	Autosensing 802.3 10/100BASE-T Ethernet

<b>Frequency Band and Operating Channels</b>	<p>Americas (FCC)</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.15 to 5.35, 5.725 to 5.825 GHz; 12 channels</li> </ul> <p>China</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.725 to 5.825 GHz; 4 channels</li> </ul> <p>ETSI</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.15 to 5.725 GHz; 19 channels</li> </ul> <p>Israel</p> <ul style="list-style-type: none"> <li>• 2.432 to 2.472 GHz; 9 channels</li> <li>• 5.15 to 5.35 GHz, 8 channels</li> </ul> <p>Japan (TELEC)</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels Orthogonal Frequency Division Multiplexing (OFDM)</li> <li>• 2.412 to 2.484 GHz; 14 channels Complementary Code Keying (CCK)</li> <li>• 5.15 to 5.25 GHz; 4 channels</li> </ul> <p>Japan-P (TELEC 2 (Japan2) Cnfg)</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels Orthogonal Frequency Division Multiplexing (OFDM)</li> <li>• 2.412 to 2.484 GHz; 14 channels Complementary Code Keying (CCK)</li> <li>• 5.15 to 5.35 GHz, 8 channels</li> </ul> <p>Japan-Q</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels Orthogonal Frequency Division Multiplexing (OFDM)</li> <li>• 2.412 to 2.484 GHz; 14 channels Complementary Code Keying (CCK)</li> <li>• 5.15 to 5.35 GHz, 8 channels</li> <li>• 5.470 to 5.725 GHz, 11 channels</li> </ul> <p>Korea</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz; 13 channels</li> <li>• 5.15 to 5.35, 5.46 to 5.72, 5.725 to 5.825, 19 channels</li> </ul> <p>North America</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz; 11 channels</li> <li>• 5.15 to 5.35, 5.725 to 5.825 GHz; 12 channels</li> </ul> <p>Singapore</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.472 GHz, 13 channels</li> <li>• 5.15 to 5.35 GHz, 8 channels and 5.725 to 5.825 GHz, 12 channels</li> </ul> <p>Taiwan</p> <ul style="list-style-type: none"> <li>• 2.412 to 2.462 GHz, 11 channels</li> <li>• 5.25-5.35 GHz, 5.725 to 5.825, 7 channels</li> </ul>		
<b>Nonoverlapping Channels</b>	802.11a: Up to 19	802.11b/g: 3	
<b>Receive Sensitivity (Typical)</b>	802.11a: 6 Mbps: -87 dBm 9 Mbps: -86 dBm 12 Mbps: -85 dBm 18 Mbps: -84 dBm 24 Mbps: -80 dBm 36 Mbps: -78 dBm 48 Mbps: -73 dBm 54 Mbps: -71 dBm		802.11g: 1 Mbps: -93 dBm 2 Mbps: -91 dBm 5.5 Mbps: -88 dBm 6 Mbps: -86 dBm 9 Mbps: -85 dBm 11 Mbps: -85 dBm 12 Mbps: -84 dBm 18 Mbps: -83 dBm 24 Mbps: -79 dBm 36 Mbps: -77 dBm 48 Mbps: -72 dBm 54 Mbps: -70 dBm
<b>Available Transmit Power Settings (Maximum Power Setting Will Vary by Channel and According to Individual Country Regulations)</b>	802.11a: OFDM: 17 dBm (50 mW) 15 dBm (30 mW) 14 dBm (25 mW) 11 dBm (12 mW) 8 dBm (6 mW) 5 dBm (3 mW) 2 mW (2 dBm) -1 dBm (1 mW)	802.11b: CCK: 20 dBm (100 mW) 17 dBm (50 mW) 14 dBm (25 mW) 11 dBm (12 mW) 8 dBm (6 mW) 5 dBm (3 mW) 2 dBm (2 mW) -1 dBm (1 mW)	802.11g: OFDM: 17 dBm (50 mW) 14 dBm (25 mW) 11 dBm (12 mW) 8 dBm (6 mW) 5 dBm (3 mW) 2 dBm (2 mW) -1 dBm (1 mW)
<b>Range</b>	Indoor (Distance Across Open Office Environment):		Outdoor:

	<p>802.11a:  80 ft (24 m) @ 54 Mbps  150 ft (45 m) @ 48 Mbps  200 ft (60 m) @ 36 Mbps  225 ft (69 m) @ 24 Mbps  250 ft (76 m) @ 18 Mbps  275 ft (84 m) @ 12 Mbps  300 ft (91 m) @ 9 Mbps  325 ft (100 m) @ 6 Mbps</p>	<p>802.11g:  100 ft (30 m) @ 54 Mbps  175 ft (53 m) @ 48 Mbps  250 ft (76 m) @ 36 Mbps  275 ft (84 m) @ 24 Mbps  325 ft (100 m) @ 18 Mbps  350 ft (107 m) @ 12 Mbps  360 ft (110 m) @ 11 Mbps  375 ft (114 m) @ 9 Mbps  400 ft (122 m) @ 6 Mbps  420 ft (128 m) @ 5.5 Mbps  440 ft (134 m) @ 2 Mbps  450 ft (137 m) @ 1 Mbps</p>	<p>802.11a:  100 ft (30 m) @ 54 Mbps  300 ft (91 m) @ 48 Mbps  425 ft (130 m) @ 36 Mbps  500 ft (152 m) @ 24 Mbps  550 ft (168 m) @ 18 Mbps  600 ft (183 m) @ 12 Mbps  625 ft (190 m) @ 9 Mbps  650 ft (198 m) @ 6 Mbps</p>	<p>802.11g:  120 ft (37 m) @ 54 Mbps  350 ft (107 m) @ 48 Mbps  550 ft (168 m) @ 36 Mbps  650 ft (198 m) @ 24 Mbps  750 ft (229 m) @ 18 Mbps  800 ft (244 m) @ 12 Mbps  820 ft (250 m) @ 11 Mbps  875 ft (267 m) @ 9 Mbps  900 ft (274 m) @ 6 Mbps  910 ft (277 m) @ 5.5 Mbps  940 ft (287 m) @ 2 Mbps  950 ft (290 m) @ 1 Mbps</p>
<p>Ranges and actual throughput vary based upon numerous environmental factors so individual performance may differ.</p>				
<p><b>Compliance</b></p>	<p>Standards  Safety  <ul style="list-style-type: none"> <li>• UL 60950-1</li> <li>• CAN/CSA-C22.2 No. 60950-1</li> <li>• UL 2043</li> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• NIST FIPS 140-2 level 2 validation</li> </ul> Radio Approvals  <ul style="list-style-type: none"> <li>• FCC Part 15.247, 15.407</li> <li>• RSS-210 (Canada)</li> <li>• EN 300.328, EN 301.893 (Europe)</li> <li>• ARIB-STD 33 (Japan)</li> <li>• ARIB-STD 66 (Japan)</li> <li>• ARIB-STD T71 (Japan)</li> <li>• AS/NZS 4268.2003 (Australia and New Zealand)</li> </ul> EMI and Susceptibility (Class B)  <ul style="list-style-type: none"> <li>• FCC Part 15.107 and 15.109</li> <li>• ICES-003 (Canada)</li> <li>• VCCI (Japan)</li> <li>• EN 301.489-1 and -17 (Europe)</li> </ul> Security  <ul style="list-style-type: none"> <li>• 802.11i, WPA2, WPA</li> <li>• 802.1X</li> <li>• AES, TKIP</li> <li>• FIPS 140-2 Pre-Validation List</li> <li>• Common Criteria (when running Cisco IOS software)</li> </ul> Other  <ul style="list-style-type: none"> <li>• IEEE 802.11g and IEEE 802.11a</li> <li>• FCC Bulletin OET-65C</li> <li>• RSS-102</li> </ul> </p>			
<p><b>Antennas</b></p>	<ul style="list-style-type: none"> <li>• 2.4 GHz</li> <li>• Gain 3.0 dBi</li> <li>• Horizontal Beamwidth 360°</li> <li>• 5 GHz</li> <li>• Gain 4.5 dBi</li> <li>• Horizontal Beamwidth 360°</li> </ul>			
<p><b>Security</b></p>	<p>Authentication  Security Standards  <ul style="list-style-type: none"> <li>• WPA</li> <li>• WPA2 (802.11i)</li> <li>• Cisco TKIP</li> <li>• Cisco message integrity check (MIC)</li> <li>• IEEE 802.11 WEP keys of 40 bits and 128 bits</li> </ul> 802.1X EAP types:  <ul style="list-style-type: none"> <li>• EAP-Flexible Authentication via Secure Tunneling (EAP-FAST)</li> <li>• Protected EAP-Generic Token Card (PEAP-GTC)</li> <li>• PEAP-Microsoft Challenge Authentication Protocol Version 2 (PEAP-MSCHAP)</li> <li>• EAP-Transport Layer Security (EAP-TLS)</li> <li>• EAP-Tunneled TLS (EAP-TTLS)</li> <li>• EAP-Subscriber Identity Module (EAP-SIM)</li> <li>• Cisco LEAP</li> </ul> Encryption  <ul style="list-style-type: none"> <li>• AES-CCMP encryption (WPA2)</li> <li>• TKIP (WPA)</li> <li>• Cisco TKIP</li> <li>• WPA TKIP</li> <li>• IEEE 802.11 WEP keys of 40 bits and 128 bits</li> </ul> </p>			

<b>Status LEDs</b>	<p>External:</p> <ul style="list-style-type: none"> <li>• Status LED indicates operating state, association status, error/warning condition, boot sequence, and maintenance status</li> </ul> <p>Internal:</p> <ul style="list-style-type: none"> <li>• Ethernet LED indicates activity over the Ethernet, status</li> <li>• Radio LED indicates activity over the radios, status</li> </ul>
<b>Dimensions (H x W x D)</b>	7.5 in. x 7.5 in. x 1.3 in. (19.1 x 19.1 x 3.3 cm)
<b>Weight</b>	1.5 lb (0.67 kg)
<b>Environmental</b>	<p>Operating</p> <ul style="list-style-type: none"> <li>• Altitude: 0 to 2500m</li> <li>• 32 to 104°F (0 to 40°C)</li> <li>• 10 to 90% humidity (noncondensing)</li> </ul> <p>Non Operating</p> <ul style="list-style-type: none"> <li>• -40 to 158F (-40 to 70C)</li> <li>• Up to 95% humidity (noncondensing)</li> </ul>
<b>System Memory</b>	<ul style="list-style-type: none"> <li>• 32 MB RAM</li> <li>• 16 MB FLASH</li> </ul>
<b>Input Power Requirements</b>	<ul style="list-style-type: none"> <li>• 100-240 VAC; 50-60Hz (power supply)</li> <li>• 36-57 VDC (device)</li> </ul>
<b>Power Draw</b>	12.2W maximum

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