

# AIR-AP3802P-A-K9 Datasheet

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## Overview

AIR-AP3802P-A-K9 is one of the Cisco 3800 Series Access Points. The Cisco Aironet 3800 Wi-Fi access points are designed for large enterprise organizations that rely on Wi-Fi to engage with customers. The 3800 series provides multiple gigabit uplink speeds of 2.5 Gbps and 5 Gbps in addition to 100-Mbps and 1-Gbps speeds. It also delivers new 802.11ac Wave 2 standard. Cisco Aironet 3800 Series Wi-Fi access points are highly versatile and deliver the most functionality of any access points in the industry. AIR-AP3802P-A-K9 is designed for Indoor, challenging environments, with external antennas. Besides, it provides A regulatory domain.

## Quick Specs

Table 1 shows the quick specs of AIR-AP3802P-A-K9.

<b>Product Code</b>	AIR-AP3802P-A-K9
<b>Antennas</b>	External Antennas
<b>Permit Antenna Gains</b>	Up to 13 dBi
<b>Interfaces</b>	<ul style="list-style-type: none"><li>- 2 Ethernet ports</li><li>- 100/1000/2500/5000 Multigigabit Ethernet (RJ-45)</li><li>- CAT 5e cabling</li><li>- Higher-quality 10GBASE-T (CAT 6/6a) cabling</li><li>- 100/1000BASE-T autosensing (RJ-45 - AUX port)</li><li>- Management console port (RJ-45)</li></ul>
<b>Features</b>	<ul style="list-style-type: none"><li>- 4x4 MU-MIMO with three spatial streams</li><li>- MRC</li><li>- 802.11ac beamforming</li><li>- 20-, 40-, 80, 160-MHz channels</li><li>- PHY data rates up to 5.2 Gbps</li><li>- Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)</li><li>- 802.11 DFS</li><li>- CSD support</li></ul>
<b>Regulatory Domain</b>	A (A regulatory domain): <ul style="list-style-type: none"><li>- 2.412 to 2.462 GHz; 11 channels</li><li>- 5.180 to 5.320 GHz; 8 channels</li><li>- 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li><li>- 5.745 to 5.825 GHz; 5 channels</li></ul>
<b>System</b>	<ul style="list-style-type: none"><li>- 1024 MB DRAM</li><li>- 256 MB flash</li></ul>
<b>Dimensions (W x L x H)</b>	8.66 x 8.68 x 2.62 in. (22 x 22 x 6.7 cm)
<b>Net Weight</b>	4.6 lb (2.09 kg)

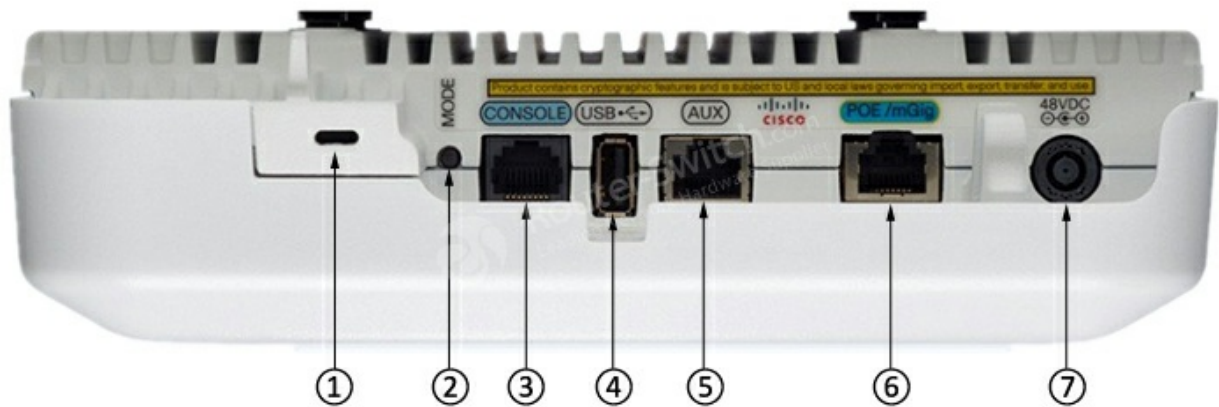
## Product Details

Figure 1 shows the appearance of the AIR-AP3802P.



· There are four antenna connectors and one LED indicator on the face of AIR-AP3802P.

Figure 2 shows ports and connections on the head of the AP.



Note:

(1)	Kensington lock slot	(5)	AUX / Gigabit Ethernet port
(2)	Mode button	(6)	PoE / mGig port
(3)	Console port	(7)	48 VDC power port
(4)	USB port		

Figure 3 shows the external connector ports of the AP.



Note:

(1)	Smart Antenna Connector
(2)	Side Mount Modular Slot

**Smart Antenna Connector:** The 3800 series Access Points now support the capability of dual 5–GHz operation. When in this mode, a smart antenna connector must be used on the external antenna models, as the additional 5–GHz radio cannot use the same top antennas on the access point that are being used by the primary 5–GHz radio.

**Side Mount Modular Slot:** The AP 3800 has modularity support. This module design allows for installation onto the side of the access point. This allows for larger antenna arrays and does not constrict the development of Cisco and potentially third party modules as they are no longer limited by the physical size of the access point. Additionally, filtering is installed on the AP 3800 for cellular and other radio coexistence.

## Supported External Antennas

Table 2 shows the supported external antennas of the AP.

Model	Descriptions
<a href="#">AIR-ANT2524DB-R</a>	Cisco AIR-ANT2524DB-R 2.4 GHz 2 dBi/5 GHz 4 dBi Dipole Ant., Black, RP-TNC
<a href="#">AIR-ANT2524DG-R/=</a>	Cisco AIR-ANT2524DG-R 2.4 GHz 2 dBi/5 GHz 4 dBi Dipole Ant., Gray, RP-TNC
<a href="#">AIR-ANT2524DW-R/=</a>	Cisco AIR-ANT2524DW-R 2.4 GHz 2 dBi/5 GHz 4 dBi Dipole Ant., White, RP-TNC
<a href="#">AIR-ANT2566P4W-R=</a>	Cisco AIR-ANT2566P4W-R 2.4 GHz 6 dBi/5 GHz 6 dBi Directional Ant., 4-port, RP-TNC
<a href="#">AIR-ANT2524V4C-R=</a>	Cisco AIR-ANT2524V4C-R 2.4GHz 2dBi/5GHz 4dBi Ceiling Mount Omni Ant., 4-port,RP-TNC
<a href="#">AIR-ANT2544V4M-R=</a>	Cisco AIR-ANT2544V4M-R 2.4GHz 4dBi/5GHz 4dBi Multi Mount Omni Ant., 4-port,RP-TNC

## Compare to Similar Items

Table 3 shows the comparison between two AP.

Models	<a href="#">AIR-AP3802E-A-K9</a>	<a href="#">AIR-AP3802P-A-K9</a>
Permit Antenna Gains	Up to 6 dBi	Up to 13 dBi
Interfaces	<ul style="list-style-type: none"> <li>- 2 Ethernet ports</li> <li>- 100/1000/2500/5000 Multigigabit Ethernet (RJ-45)</li> <li>- CAT 5e cabling</li> <li>- Higher-quality 10GBASE-T (CAT 6/6a) cabling</li> <li>- 100/1000BASE-T autosensing (RJ-45 - AUX port)</li> <li>- Management console port (RJ-45)</li> </ul>	<ul style="list-style-type: none"> <li>- 2 Ethernet ports</li> <li>- 100/1000/2500/5000 Multigigabit Ethernet (RJ-45)</li> <li>- CAT 5e cabling</li> <li>- Higher-quality 10GBASE-T (CAT 6/6a) cabling</li> <li>- 100/1000BASE-T autosensing (RJ-45 - AUX port)</li> <li>- Management console port (RJ-45)</li> </ul>
Regulatory Domain	A (A regulatory domain): <ul style="list-style-type: none"> <li>- 2.412 to 2.462 GHz; 11 channels</li> <li>- 5.180 to 5.320 GHz; 8 channels</li> <li>- 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>- 5.745 to 5.825 GHz; 5 channels</li> </ul>	A (A regulatory domain): <ul style="list-style-type: none"> <li>- 2.412 to 2.462 GHz; 11 channels</li> <li>- 5.180 to 5.320 GHz; 8 channels</li> <li>- 5.500 to 5.700 GHz; 8 channels (excludes 5.600 to 5.640 GHz)</li> <li>- 5.745 to 5.825 GHz; 5 channels</li> </ul>

## Support & Resources

 [\[PDF\] Cisco Indoor Access Points Comparison Chart](#)

## Get more information

Do you have any question about the AIR-AP3802P-A-K9?

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

## Specification

### AIR-AP3802P-A-K9 Specification

<b>Software and supported wireless LAN controllers</b>	<p>Cisco Unified Wireless Network Software Release 8.2.MR1 or later  Cisco 2500 Series Wireless Controllers, Cisco Wireless Controller Module for ISR G2, Cisco Wireless Services Module 2 (WiSM2) for Catalyst®6500 Series Switches, Cisco 5500 Series Wireless Controllers, Cisco Flex® 7500 Series Wireless Controllers, Cisco 8500 Series Wireless Controllers, Cisco Virtual Wireless Controller</p> <p>Cisco IOS®XE Software Release 16.3 – Target Q3 CY2016  Cisco Catalyst 3850 Series and 3650 Series Switches</p>
<b>802.11n version 2.0 (and related) capabilities</b>	<p>4x4 MIMO with three spatial streams  Maximal ratio combining (MRC)  802.11n and 802.11a/g beamforming  20- and 40-MHz channels  PHY data rates up to 450 Mbps (40 MHz with 5 GHz).  Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)  802.11 dynamic frequency selection (DFS)  Cyclic shift diversity (CSD) support</p>
<b>802.11ac Wave 1 capabilities</b>	<p>4x4 MIMO with three spatial streams  MRC  802.11ac beamforming  20-, 40-, and 80-MHz channels  PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz)  Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)  802.11 DFS  CSD support</p>
<b>802.11ac Wave 2 capabilities</b>	<p>4x4 MU-MIMO with three spatial streams  MRC  802.11ac beamforming  20-, 40-, 80, 160-MHz channels  PHY data rates up to 5.2 Gbps  Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)  802.11 DFS  CSD support</p>
<b>Integrated antenna</b>	<p><b>Flexible radio (either 2.4 GHz or 5 GHz)</b></p> <p>2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth  5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90°</p> <p><b>Dedicated 5-GHz radio</b></p> <p>5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth</p>
<b>External antenna (sold separately)</b>	<p>3802e Series access points are certified for use with antenna gains up to 6 dBi (2.4 GHz and 5 GHz)  3802p Series access points are certified for use with antenna gains up to 13 dBi (2.4 GHz and 5 GHz) with the AIR-ANT2513-P4M-N=antenna  Cisco offers the industry's broadest selection of antennas, delivering optimal coverage for a variety of deployment scenarios</p>
<b>Smart Antenna Connector</b>	<p>Available on the 3802e Series and 3802p Series access points only  Requires the AIR-CAB002-DART-R= 2 ft smart antenna connector to RP-TNC connectors to connect a second antenna to the access point  Required when running the flexible radio as either a:</p> <ul style="list-style-type: none"> <li>o Second 5-GHz serving radio</li> <li>o Wireless Security Monitoring radio</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>o 2 Ethernet ports</li> <li>o 100/1000/2500/5000 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz</li> <li>o CAT 5e cabling</li> <li>o Higher-quality 10GBASE-T (CAT 6/6a) cabling</li> <li>o 100/1000BASE-T autosensing (RJ-45 - AUX port)</li> <li>o Management console port (RJ-45)</li> </ul>
<b>Indicators</b>	<p>Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors</p>
<b>Dimensions (W x L x H)</b>	<p>Access point (without mounting brackets): 3802I: 8.66 x 8.68 x 2.46 in. (22 x 22 x 6.25 cm), 3802E: 8.66 x 8.68 x 2.62 in. (22 x 22 x 6.7 cm), 3802P: 8.66 x 8.68 x 2.62 in. (22 x 22 x 6.7 cm)</p>
<b>Weight</b>	<p>4.6 lb (2.09 kg)</p>

<b>Input power requirements</b>	802.3at PoE+, Cisco Universal Power over Ethernet (Cisco UPOE®) 802.3at power injector (AIR-PWRINJ6=) 50W power supply (AIR-PWR-50=)
<b>Power draw</b>	30W at the PSE with all features enabled except for the USB 2.0 port 34W at the PSE with the USB 2.0 port enabled
<b>Environmental</b>	<p>Cisco Aironet 3800i</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: 32° to 104°F (0° to 40°C) Operating humidity: 10% to 90% percent (noncondensing) Operating altitude test: 40°C, 9843 ft.</p> <p>Cisco Aironet 3800e</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -4° to 122°F (-20° to 50°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.</p> <p>Cisco Aironet 3800p</p> <p>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C) Nonoperating (storage) altitude test: 25°C, 15,000 ft. Operating temperature: -4° to 122°F (-20° to 50°C) Operating humidity: 10% to 90% (noncondensing) Operating altitude test: 40°C, 9843 ft.</p>
<b>System memory</b>	1024 MB DRAM 256 MB flash
<b>Warranty</b>	Limited lifetime hardware warranty

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