# AIR-AP3802I-B-K9 Datasheet

## Overview

AIR-AP3802I-B-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-AP3802I-B-K9 is designed for Indoor, challenging environments, with internal antennas. Besides, it provides B regulatory domain.

### Quick Specs

**Table 1 shows the quick specs of AIR-AP3802I-B-K9.**

| Product Code | AIR-AP3802I-B-K9 |
|---|---|
| Antennas | Internal Antennas |
| Interfaces | - 2 Ethernet ports<br>- 100/1000/2500/5000 Multigigabit Ethernet (RJ-45)<br>- CAT 5e cabling<br>- Higher-quality 10GBASE-T (CAT 6/6a) cabling<br>- 100/1000BASE-T autosensing (RJ-45 - AUX port)<br>- Management console port (RJ-45) |
| Features | - 4x4 MU-MIMO with three spatial streams<br>- MRC<br>- 802.11ac beamforming<br>- 20-, 40-, 80, 160-MHz channels<br>- PHY data rates up to 5.2 Gbps<br>- Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>- 802.11 DFS<br>- CSD support |
| Regulatory Domain | B (B regulatory domain):<br>- 2.412 to 2.462 GHz; 11 channels<br>- 5.180 to 5.320 GHz; 8 channels<br>- 5.500 to 5.720 GHz; 12 channels<br>- 5.745 to 5.825 GHz; 5 channels |
| System | - 1024 MB DRAM<br>- 256 MB flash |
| Dimensions (W x L x H) | 8.66 x 8.68 x 2.46 in. (22 x 22 x 6.25 cm) |
| Net Weight | 4.6 lb (2.09 kg) |

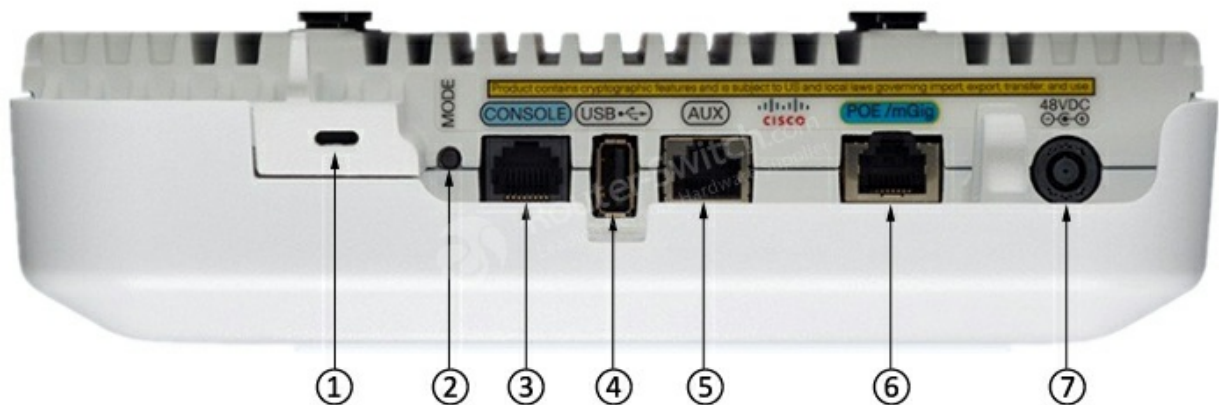### Product Details

**Figure 1 shows the face of the AIR-AP3802I.**

Note:

| (1) | Status LED |
|-----|-----------|
| (2) | Location of the ports and connectors on the head of the AP |
| (3) | Location of the module connector port on the base of the AP |

**Module Connector Port:** 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.

**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 | | |

## AIR-AP3802I-B-K9 Specifications

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|---|---|
| **Detail** | 802.11ac Wave 2 AP w/CleanAir, 4x4:3, Mod, Internal Antenna, mGig, B Regulatory Domain |
| **Regulatory Domain** | B (B regulatory domain):<br>- 2.412 to 2.462 GHz; 11 channels<br>- 5.180 to 5.320 GHz; 8 channels<br>- 5.500 to 5.720 GHz; 12 channels<br>- 5.745 to 5.825 GHz; 5 channels |
| **Software and supported wireless LAN controllers** | Cisco Unified Wireless Network Software Release 8.2.MR1 or later<br>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<br>Cisco IOS XE Software Release 16.3 – Target Q3 CY2016<br>Cisco Catalyst 3850 Series and 3650 Series Switches |
| **802.11n version 2.0 (and related) capabilities** | 4x4 MIMO with three spatial streams<br>Maximal ratio combining (MRC)<br>802.11n and 802.11a/g beamforming<br>20- and 40-MHz channels<br>PHY data rates up to 450 Mbps (40 MHz with 5 GHz).<br>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>802.11 dynamic frequency selection (DFS)<br>Cyclic shift diversity (CSD) support |
| **802.11ac Wave 1 capabilities** | 4x4 MIMO with three spatial streams<br>MRC<br>802.11ac beamforming<br>20-, 40-, and 80-MHz channels<br>PHY data rates up to 1.3 Gbps (80 MHz in 5 GHz)<br>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>802.11 DFS<br>CSD support |
| **802.11ac Wave 2 capabilities** | 4x4 MU-MIMO with three spatial streams<br>MRC<br>802.11ac beamforming<br>20-, 40-, 80, 160-MHz channels<br>PHY data rates up to 5.2 Gbps<br>Packet aggregation: A-MPDU (Tx/Rx), A-MSDU (Tx/Rx)<br>802.11 DFS<br>CSD support |
| **Integrated antenna** | Flexible radio (either 2.4 GHz or 5 GHz)<br>2.4 GHz, gain 4 dBi, internal antenna, omnidirectional in azimuth<br>5 GHz, gain 6 dBi, internal directional antenna, elevation plane beamwidth 90°<br>Dedicated 5-GHz radio<br>5 GHz, gain 5 dBi, internal antenna, omnidirectional in azimuth |
| **Interfaces** | ◦ 2 Ethernet ports<br>◦ 100/1000/2500/5000 Multigigabit Ethernet (RJ-45) – IEEE 802.3bz<br>◦ CAT 5e cabling<br>◦ Higher-quality 10GBASE-T (CAT 6/6a) cabling<br>◦ 100/1000BASE-T autosensing (RJ-45 - AUX port)<br>◦ Management console port (RJ-45) |
| **Indicators** | Status LED indicates boot loader status, association status, operating status, boot loader warnings, boot loader errors |
| **Dimensions (W x L x H)** | 8.66 x 8.68 x 2.46 in. (22 x 22 x 6.25 cm), |
| **Weight** | 4.6 lb (2.09 kg) |
| **Input power requirements** | 802.3at PoE+, Cisco Universal Power over Ethernet (Cisco UPOE)<br>802.3at power injector (AIR-PWRINJ6=)<br>50W power supply (AIR-PWR-50=) |
| **Power draw** | 30W at the PSE with all features enabled except for the USB 2.0 port<br>34W at the PSE with the USB 2.0 port enabled |

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|---|---|
| **Environmental** | Cisco Aironet 3800i<br>Nonoperating (storage) temperature: -22° to 158°F (-30° to 70°C)<br>Nonoperating (storage) altitude test: 25˚C, 15,000 ft.<br>Operating temperature: 32° to 104°F (0° to 40°C)<br>Operating humidity: 10% to 90% percent (noncondensing)<br>Operating altitude test: 40˚C, 9843 ft. |
| **System memory** | 1024 MB DRAM<br>256 MB Flash |
| **Warranty** | Limited lifetime hardware warranty |