



## Fusion 50 Access Point Data Sheet

Fusion 50 managed Wi-Fi Access Points (APs) work in conjunction with the Fusion 300 Wireless LAN Controller (required) to provide simple, secure voice and data 802.11b/g access for any SMB (Small-to Medium-sized Business). Features of the Fusion 50 provide an SMB with all the power of an enterprise class solution.

The Fusion 50 is Wi-Fi Alliance certified for WPA and WPA2 authentication and encryption. It can serve as a network access device, a Wi-Fi IDS/IPS scanner, or both.

### Technical Specifications

#### Standards and Certifications

- Wi-Fi Alliance b, g certified
- Wi-Fi Alliance WPA and WPA2 certified
- Wi-Fi Alliance EAP certified
- Wi-Fi Alliance WMM certified
- IEEE802.11b
- IEEE802.11g
- IEEE802.3
- IEEE802.3af
- IEEE802.3u

#### Bandwidth

##### Ethernet

- Full duplex: 200Mbps (100BASETX), 20Mbps (10BaseT)
- Half duplex: 100Mbps (100BASETX), 10Mbps (10BaseT)

##### Wireless

- 1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, and 54 Mbps

#### Wireless Radio

- Data Rate: 1, 2, 5.5, 6, 9, 11, 12, 24, 36, 48, and 54 Mbps
- Signal Frequency: 2.4GHz to 2.5GHz OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK
- Encryption: 64bit, 128bit, and 152bit WEP data encryption

#### Software/Firmware

- DHCP Client
- Wireless STA (client) list
- MAC Address Filter
- Rogue AP detection
- Web-based configuration

- CLI Support
- Firmware upgrade via Web
- Automatic remote FTP firmware upgrade
- Reset to default by Web UI

#### Wireless Settings

- SSID / Multiple SSID with VLAN
- Channel Selection
- Transmission Rate (Best, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1) in Mbps
- Transmit power (Full, Half, Quarter, Eighth, Minimum)
- Beacon Interval (20-300) milliseconds: 100 default
- RTS/CTS Threshold (0-2347) bytes: 2347 default

#### Security

- WEP settings: 802.1x, Open, Shared, and Open and Shared
- Keys input type: HEX / ASCII
- Keys length: (64-bit, 128-bit, 152-bit, and 256-bit)
- Default WEP Key to use (1-4)
- WPA setting: Cipher type: TKIP
- Shared Key
- Group Key Update Interval: 300
- WPA-PSK settings: Cipher type TKIP
- PassPhrase
- Group Key Update Interval: 300
- WPA2 settings: Cipher Type AES/CCMP
- Shared Key
- Group Key Update Interval: 300
- WPA2-PSK settings: Cipher type AES/CCMP
- PassPhrase
- Group Key Update Interval: 300



#### Physical

##### Power

- AC Input: 100-240 VAC 1.0A Max. 50/60 Hz
- DC Input: 5V/2.4A
- Radio Transmit Power: 50 mW

##### Dimensions

- Width 2.9" (73 mm)
- Depth 0.9" (23 mm)
- Height 4.8" (122.31 mm)

##### Connections

- One Ethernet, 10/100 Mbps, RJ-45
- One Console, DB9 Serial Port

#### Environmental

##### Operating

- Temperature: 0-40°C (32-104°F)
- Relative Humidity: 10%-90% non-condensing

##### Storage

- Temperature: -25-75°C (-13-167°F)
- Relative Humidity: 0%-95% non-condensing
- Altitude: Sea level to 40,000 feet

#### Regulatory Compliance

##### Safety

- EN 60950-1
- IEC 60950-1
- UL 60950-1
- ROHS Directive 2002/95/EC - EU
- EMC/EMI
- FCC part 15 Class B USA/Canada
- RSS 210 Canada
- Directive 1995/5/EC - EU