Cisco AIR-ANT5135SDW-R Datasheet

Cisco AIR-ANT5135SDW-R Aironet Very Short 5-GHz Omnidirectional Antenna

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The Cisco Aironet Very Short 5-GHz Omnidirectional Antenna (AIR-ANT5135SDW-R) operates in the 5-GHz frequency range and is designed for indoor use.

Technical Specifications

- Antenna type: Omnidirectional
- Operating frequency range: 5150-5850 MHz
- VSWR: 2:1 or less
- Peak gain: 3.5 dBi
- Polarization: Linear
- Azimuth plane (3 dB beamwidth): Omnidirectional
- Elevation plane(3 dB beamwidth): 40°
- Length: 1.7 in. (4.3 cm)
- Diameter: 0.75 in. (1.9 cm)
- Connector: RP-TNC jack
- Environment: Indoor only
- Operating temperature: -4° F to 131° F (-20° C to 55° C)

System Requirements

This antenna is designed for indoor use with any 5-GHz Cisco Aironet radio device that uses a RP-TNC connector.

Installation Notes

Antennas transmit and receive radio signals which are susceptible to RF obstructions and common sources of interference that can reduce throughput and range of the device to which they are connected. Follow these guidelines to ensure the best possible performance:

- Keep the access point away from metal obstructions such as heating and air-conditioning ducts, large ceiling trusses, building superstructures, and major power cabling runs.
- The density of the materials used in a building's construction determines the number of walls the signal can pass through and still maintain adequate signal strength. Consider the following before choosing the location for your antenna:
    - Signals penetrate paper and vinyl walls with little change to signal strength.
    - Signals penetrate only one or two solid and pre-cast concrete walls without degrading signal strength.
    - Signals penetrate three or four concrete and wood block walls without degrading signal strength.
    - Signals penetrate five or six walls constructed of drywall or wood without degrading signal strength.
    - Signals will likely reflect off a thick metal wall and may not penetrate it at all.
    - Signals will likely reflect off a chain link fence or wire mesh spaced between 1 and 1 1/2 in. (2.5 and 3.8 cm). The fence acts as a harmonic reflector that blocks the signal.
- Install the access point away from microwave ovens and 5-GHz cordless phones. These products can cause signal interference because they operate in the same frequency range as the device to which your antenna is connected.

Installing the Antenna

Align the antenna TNC connector with the TNC connector on the access point. Tighten the antenna hand-tight. Do not over tighten.

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