



BelAir20



BelAir20

Quick Install Guide

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Introduction

The BelAir20 is a Wi-Fi access point that meets IEEE 802.11n draft 2.0 standards. It is fully interoperable with older 802.11a/b/g standards, providing a transparent, wireless high speed data communication between the wired LAN and fixed or mobile devices. The unit includes three detachable dual-band 2.4/5 GHz antennas with the option to attach higher specification external antennas that boost network coverage. A power adapter and all required mounting hardware is also included.

Package Contents

The BelAir20 package includes:

- # BelAir20 dual radio access point
- # Power adapter-input: 100-240 VAC; output: 48 VDC
- # Four stick-on rubber feet
- # BelAir20 wall or ceiling mounting bracket
- # Four M3.5x40 pan head Phillips screws for wall mounting
- # Four 6x35 nylon wall mount anchors
- # Two tie wraps to secure DC power and Ethernet cables
- # One 10-32 nut and #10 lock washer for ground stud
- # Two twist-on T-rail support clips and T-rail spacers
- # Quick Installation Guide

Inform your dealer if there are any incorrect, missing or damaged parts. If possible, retain the carton, including the original packing materials. Use them again to repack the product in case there is a need to return it.



Warning

Do not connect a PoE or DC powered Ethernet interface to the Console Port. See the *BelAir20 User Guide* for details.

Antennas

The BelAir20 includes three dual-band external diversity Multiple Input Multiple Output (MIMO) antennas. The antennas transmit the outgoing signal as a toroidal sphere (doughnut shaped), with the coverage extending most in a direction perpendicular to the antenna. The antenna should be adjusted to an angle that provides the appropriate coverage for the service area.

External Antenna Connector

The BelAir20 supports external antennas for improving the coverage of the signal. The antennas supplied with the unit screw off in a clockwise manner and can be replaced with alternative antennas that improve or shape the coverage area.

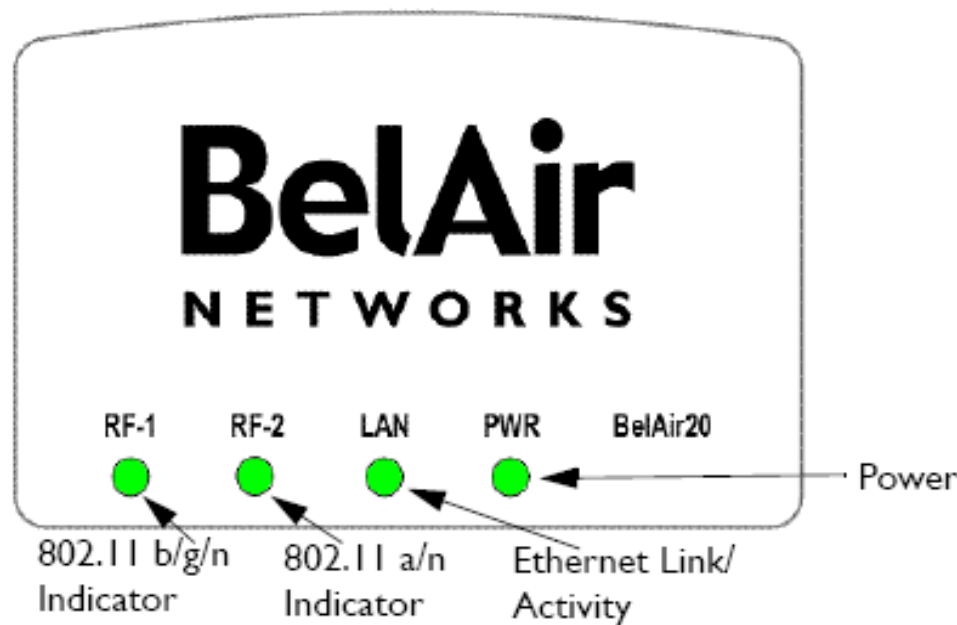
Security

The BelAir20 provides a security lock slot that accepts a lock with a body up to 3/4 inches (approx. 19 mm) wide. BelAir Networks recommends using Master Lock's 120T lock. It also provides a Kensington lock feature and a fastening screw.

LED Indicators

The BelAir20 includes four status LED indicators described in Figure 3 and Table 1 on page 5.

Figure 3: LEDs



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Otherwise, the BelAir20 can derive its operating power directly from the RJ-45 port when connected to a device that provides IEEE 802.3af compliant Power over Ethernet (PoE).

**Warning**

The BelAir20 must be connected to a Power over Ethernet (POE) IEEE 802.3af compliant power source, or an IEC/EN 60950-1 compliant power limited source.

Note: If the BelAir20 is connected to both a PoE source device and an AC power source, AC will be disabled.

- 5 Observe the Self Test - When you power on the BelAir20, verify that the Power indicator stops flashing and remains on, and that the other indicators start functioning as described under “LED Indicators” on page 4.
If the PWR LED does not stop flashing, the self test has not completed correctly. Refer to “LED Indicators” on page 4.
- 6 Connect your network to the RJ-45 port on the back panel with Category 5E or better UTP Ethernet cable. When the BelAir20 and the connected device are powered on, the Ethernet Link LED should light indicating a valid network connection.
- 7 Position the Antennas - The antennas should be oriented so that the radio coverage pattern fills the intended horizontal space. For example, if the BelAir20 is mounted on a horizontal surface, the center antenna should be vertical with the outer antennas pointed left and right at about 45 ° respectively. See Figure 1 on page 3.

Configuring the BelAir20

You can configure the BelAir20 through its Web interface or Command Line Interface (CLI). Refer to the *BelAir20 User Guide* for complete details.

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