



The Laird Connectivity S2451DBT is a dual-band six-element omnidirectional antenna for use in 802.11n MIMO applications. Three ports are designed to operate at 2.4 GHz and three ports are designed to operate at 5 GHz. Housed in a compact, low-profile radome, each of the six MIMO antenna elements is connected to the WLAN access point via a low loss, plenum-rated coax pigtail.

The radiation patterns are uniform and symmetrical, providing high levels signal density into defined coverage zones. This antenna greatly enhances the performance of 802.11n systems. The dual band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.1-5.9 GHz bands. A wide choice of coax lengths and connector types are available.

FEATURES AND BENEFITS

- Vertically-polarized omnidirectional
- Compact size
- 2.4-2.5/5.1-5.9 GHz, full 802.11a/b/g/n wideband performance
- Choice of pigtail length and connector type

APPLICATIONS

- Enterprise WLAN networks
- Campuses, hospitals, airports, and other places
- MIMO applications

ELECTRICAL SPECIFICATIONS

Model Name	S2451DBT	
Number of Ports	6	
Operating Frequency (MHz)	2400-2500	5150-5850
VSWR – Max	2:1	
Gain (dBi)	2.0	
Max Power - Ambient 25°C (W)	5	
Polarization	Linear, 6 Vertical	
Vertical Plane 3 dB Beamwidth	75°	42°
Horizontal Plane 3 dB Beamwidth	Omnidirectional	

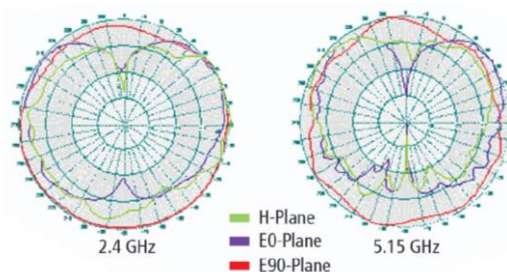
MECHANICAL SPECIFICATIONS

Dimensions – mm (inches)	219.0 x 44.0 (8.62 x 1.73)
Weight – kg (lbs.)	0.7 (1.5)
Mounting	Ceiling suspended tile
Radome Material	ASA

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Material Substance Compliance	RoHS

RADIATION PATTERNS



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