

Smart Technology. Delivered.

SPECIFICATIONS										
PARAMETER	CFD69383P/CFD69383P1									
Frequency, MHz	698- 806	824- 894	880- 960	1350- 1550	1690- 1880	1850- 1990	1910- 2180	2300- 2500	2500- 2700	3300- 4000
Peak Gain, dBi (Max)	3.8	3.7	4.2	5.0	4.7	4.3	6.0	5.0	5.7	5.4
VSWR, Max	<1.5:1			<2.0:1	<1.8:1 <2.0					<2.0:1
PIM, 3rd Order, 2x20W, dBc (Max)	<-150			<-150						
Isolation, db (min)	> 18		>13	> 15			> 25	> 28	> 25	
Nominal Impedance	50 ohms									
Polarization	Linear- Horizontal									
Azimuth Beam Width	360°, Omnidirectional									
Max Power (Ambient 25°C / 77°F)	50 W									
Dimensions (H x D)	7.6 mm x 250 mm (0.3" x 9.84")									
Weight (approx.)	420 g (.93 lbs)									
Color	White									
Radome	PC, UL94-V0									
Operating Temp	-30°C to +70°C (-22°F to +158°F)									
Storage Temperature	-40°C to +85°C (-40°F to +185°F)									
RoHS Compliance	Yes									



CFD69383P



CFD69383P1

CFD69383P/CFD69383P1

698-4000 MHz MIMO ULTRA LOW PROFILE LOW PIM ANTENNA ASSEMBLY AND INSTALLATION INSTRUCTIONS (PATENT PENDING)



Please read all instructions carefully before attempting to install this product.

SAFETY

The CFD69383P/CFD69383P1 and all associated equipment should be installed in accordance with all applicable local and national electrical code guidelines to ensure safe operation.

APPLICATION

The multi-band antenna is designed to provide simultaneous omnidirectional coverage in 698-960MHz / 1350-1550MHz / 1690-4000 MHz bands for indoor applications. All bands may be transmitted or received without interference from the other but requiring only one connection.

LOCATION

For best results, mount the antenna above exterior obstructions in a location near the center of the coverage area. A line-of-sight path between the antenna and active locations generally works best. Although frequency signals penetrate cubical dividers, partitions, and interior walls with little attenuation, reinforced block walls, metal surfaces, and steel shelving may attenuate signals or cause multipath, a condition where reflected signals interfere with the primary signal path. Avoid mounting next to a column or vertical support that could create a "shadow zone" of reduced coverage to one portion of the room.

Avoid installing antenna on a metal backed ceiling or metal structure for best performance. Any metal structure may detune the antenna. If installation below metal structure is unavoidable, a minimum distance of 75 mm from the metal surface is recommended.

SAFETY

A thread post on the back of the antenna and a supplied mounting nut is the mounting method when access is available to both sides of the mounting surface, such as suspended ceiling tile. Mark the desired mounting location on the tile and cut a Ø30 mm (1.18") hole for threaded post. Feed the cables through the hole and secure the antenna with the mounting nut and gasket if necessary (see Figure 1). For a hard ceiling installation, we recommend the CFD69383P1 model; two sets of mounting screws and anchors can be used to secure the antenna onto the ceiling.

ANGLE MARKING



Figure 3

PRECAUTION

To avoid damage of the connector joint, use the correct size of wrench to hold the connector body shell properly during tightening. Use a 14 mm wrench for the N connector or 18mm wrench for the 4.3-10 connector.

For best PIM results:

1. Make sure the connectors are clean and free from any metal flakes/dirt and tighten the connector using a torque wrench. Follow the torque specify below:

4.3-10 Туре	N-Type				
44.3 lbs in (5Nm)	25 lbs in (2.82Nm)				

- 2. Avoid extreme bending to the cable.
- 3. Do not remove dust cap from connector when not in use.

Warranty and Liability

Laird warrants to the original purchaser that antenna products will remain free from defects in materials and workmanship for a period of (5) years from the purchase date. If any such defect is discovered within the warranty period, Laird will at its sole option, repair or replace the Product free of charge upon its return to the factory. This warranty applies only if the Product is used in a normal fashinon, and is void if the Product is abused, disassembled, tampered with, used unreasonably, or fails as a result of normal wear. Furthermore, this warranty applies only to defects, which occur where the proper Product is selected as recommended by Laird and is used in the fashion recommended by Laird for the defective Product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IS LIMITED TO A PERIOD OF (5) YEARS FROM THE DATE OF ORIGINAL PURCHASE. LAIRD IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. ANY WARRANTY EXTENDED HEREIN SHALL BE LIMITED TO THE PRICE PAID TO LAIRD FOR THE DEFECTIVE PRODUCT. WHERE STATE OR LOCAL LAW GOVERNS THE PERIOD OF WARRANTY, SUCH PERIOD SHALL CONTROL.

Americas: +1.847 839.6925 IAS-AmericasSales@lairdtech.com

Europe: +44.1628.858941 IAS-EUSales@lairdtech.com

Asia: IAS-AsiaSales@lairdtech.com

Middle East and Africa: +44.1628.858941 IAS-MEAUSales@lairdtech.com www.lairdtech.com

QR CODES

There is a unique QR Codes placed on the back of each antenna. System manager can simply scan the code with a smartphone and instantly see all of the needed performance data of the antenna. This solution provides fast, accurate data and allows customers to instantly track even more information than they could previously review.



CED69383PX-XXXXX-SNYYWWZZZZ, VSWR: V@ FREQUENCY RANGE LOW PIM : -LdBc

V= VALUE OF VSWR @ FREQUENCY RANGE L= PIM VALUE AT LOW BAND & HIGH BAND

Figure 4