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# CFD69383P/CFD69383P1

## Ultra Low Profile MIMO

### Ceiling Mount Antenna

698-960 MHz/1350-1550 MHz/1690-4000 MHz



(Tile Mount)  
Patent Pending CFD69383P



(Hard Ceiling Mount)  
Patent Pending CFD69383P1

### 2-PORT MIMO MULTI-BAND LOW PIM CEILING MOUNTED OMNIDIRECTIONAL ANTENNA

The CFD69383P/CFD69383P1 are Low PIM, 2-Port MIMO indoor wideband omnidirectional low profile ceiling mount antennas. They are designed to provide pattern coverage that is optimized for indoor coverage requirements at 698-960 MHz, and 1690-4000 MHz for the LTE, AWS-3, WCS and CBRS/WiMAX frequency bands. The CFD69383P/CFD69383P1 are applicable for environments where aesthetics and wide angle coverage are necessary for successful wireless deployment. Their surprisingly small size and extreme low profile enables maximum mounting flexibility while maintaining desired in-building aesthetics.

### FEATURES

- Ultra low profile aesthetically neutral housing
- 2-port MIMO for multipath mitigation
- Mounts directly and easily to ceiling tile
- Performance optimized using Laird proprietary optimization tools
- Supports AWS-3, WCS & CBRS 3.5 GHz bands
- CFD69383P1 for hard ceiling mount installations

### APPLICATIONS

- Small Cells
- Meeting Rooms
- Offices
- Hotels
- Museums
- iDAS
- Libraries
- Retail Malls
- Bus Terminals & Train Stations
- Other In-Building Areas

PARAMETER	SPECIFICATIONS										
Model	CFD69383P/CFD69383P1										
Frequency Bands, MHz	698-806	824-894	880-960	1350-1550	1690-1880	1850-1990	1910-2180	2300-2500	2500-2700	3300-3800	3800-4000
Peak Gain, dBi (Typ)	3.2	3.4	3.8	3.0	4.2	3.9	4.6	4.6	5.2	4.3	4.9
Peak Gain, dBi (Max)	3.8	3.7	4.2	5.0	4.7	4.3	6.0	5.0	5.7	5.1	5.4
VSWR, Avg	<1.4:1	<1.4:1	<1.4:1	<1.7:1	<1.7:1	<1.6:1	<1.4:1	<1.3:1	<1.7:1	<1.7:1	<1.5:1
VSWR, Max	<1.5:1	<1.5:1	<1.5:1	<2.0:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<1.8:1	<2.0:1	<2.0:1
Isolation, dB (Avg)	> 20	> 22	> 23	> 16	> 16	> 18	> 19	> 31	> 36	> 28	> 30
Isolation, dB (Min)	> 18	> 18	> 18	> 13	> 15	> 15	> 15	> 25	> 28	> 25	> 25
PIM, 3rd Order, 2x20 W (Avg)	<-158 dBc (LTE Low Band)			<-160 dBc (LTE High Band)							
PIM, 3rd Order, 2x20 W (Max)	<-150 dBc			<-150 dBc							
Nominal Impedance	50Ω										
Polarization	Linear Horizontal										
Azimuth 3 dB Beamwidth	360°, Omnidirectional										
Max Power (Ambient 25°C)	50 Watts										
Antenna Dimension (H x Dia)	7.6 x 250 mm (0.3" x 9.84")										
Weight	420 g (0.93 lbs)										
Antenna Color	White										
Radome	PC, UL94-V0										
Operating Temperature	-30°C to +70°C (-22°F to +158°F)										
Storage Temperature	-40°C to +85°C (-40°F to +185°F)										
Material Substance Compliance	RoHS										

### CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR	MOUNTING	PACKAGING
CFD69383P-30NF	30 cm (12")	Type N- female	Ceiling tile	Unit
CFD69383P-30D43F	30 cm (12")	4.3-10 female	Ceiling tile	Unit
CFD69383P-B30NF	30 cm (12")	Type N- female	Ceiling tile	Bulk
CFD69383P-B30D43F	30 cm (12")	4.3-10 female	Ceiling tile	Bulk
CFD69383P1-30NF	30 cm (12")	Type N- female	Hard Ceiling	Unit
CFD69383P1-30D43F	30 cm (12")	4.3-10 female	Hard Ceiling	Unit
CFD69383P1-B30NF	30 cm (12")	Type N- female	Hard Ceiling	Bulk
CFD69383P1-B30D43F	30 cm (12")	4.3-10 female	Hard Ceiling	Bulk

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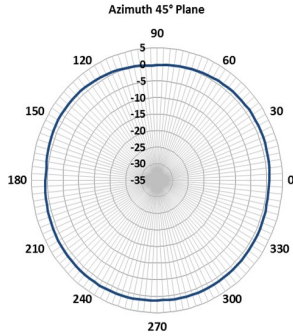
CFD69383P/CFD69383P1

698-960 MHz/1350-1550 MHz/1690-4000 MHz

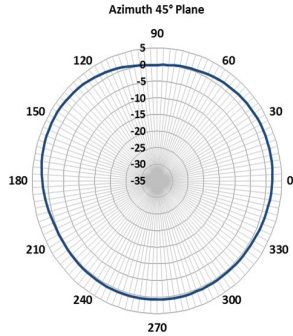
Ultra Low Profile MIMO  
Ceiling Mount Antenna

RADIATION PATTERNS

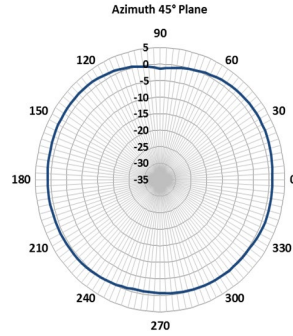
698 MHz



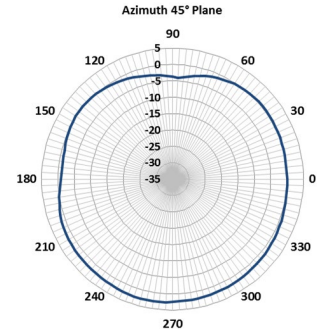
806 MHz



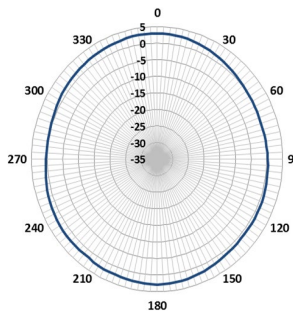
960 MHz



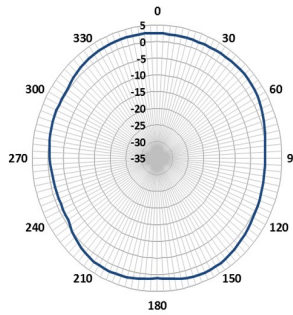
1427 MHz



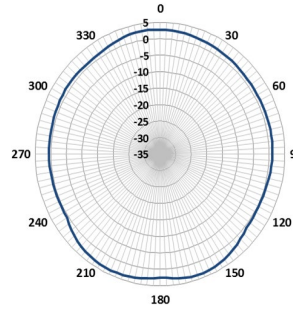
Elevation Plane



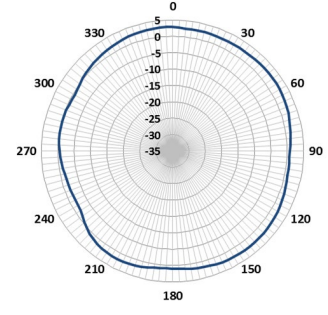
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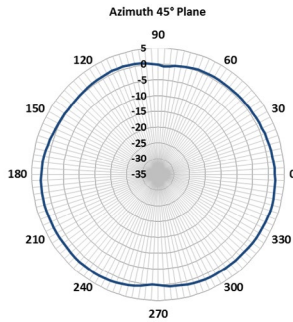
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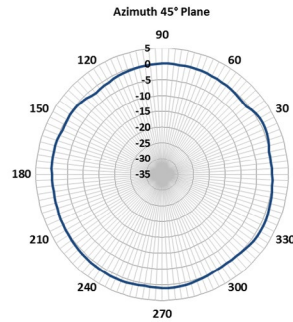
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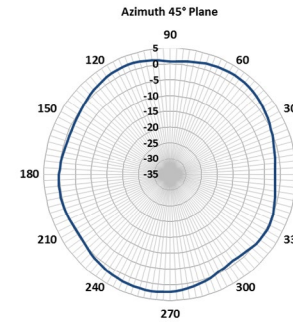
1710 MHz



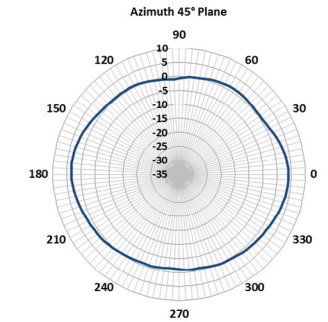
1880 MHz



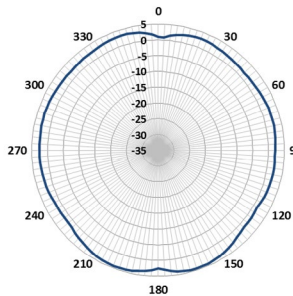
1990 MHz



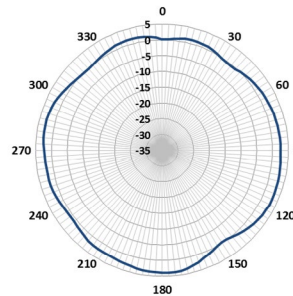
2180 MHz



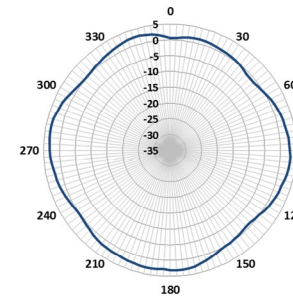
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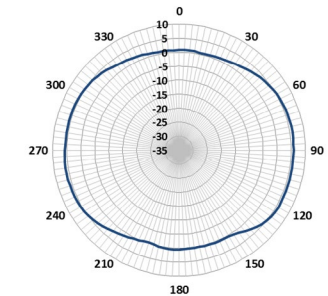
Elevation Plane



Elevation Plane



Elevation Plane





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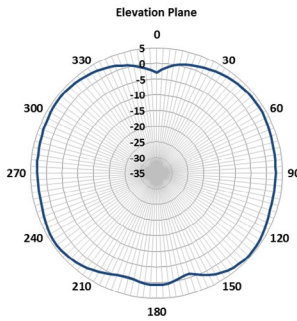
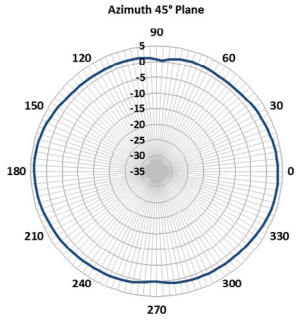
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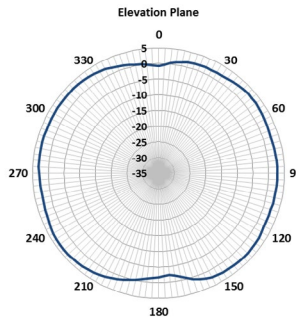
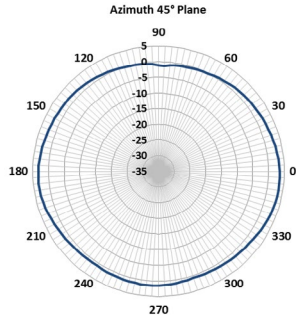
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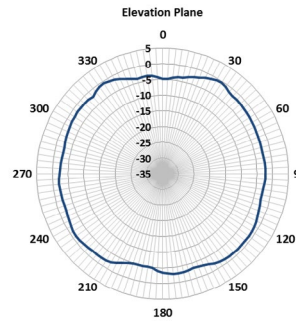
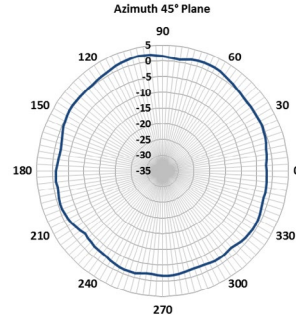
2412 MHz



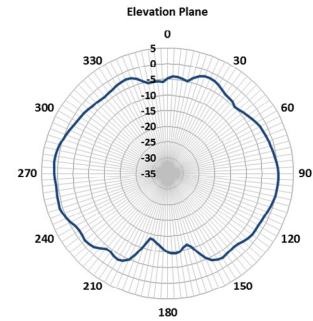
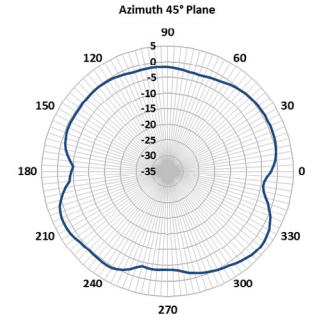
2600 MHz



3500 MHz



4000 MHz



ANT-DS-CFD69383P 0817

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