

PEAR™ M5542i

Small Form Factor MIMO In-Building Antenna

[698-960 / 1695-2700 MHz]



Description:

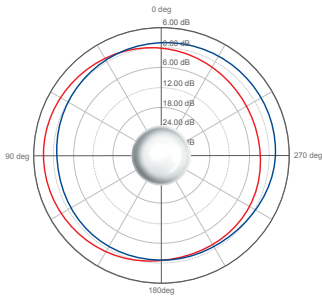
Ceiling mount omni directional MIMO antenna for in-building applications such as DAS providing MIMO performance for the complete frequency range of 698-960 MHz and 1695-2700Mhz.

Electrical Specifications	Port 1 & 2			
	698-894 MHz	894-960 MHz	1695-2180 MHz	2180-2700 MHz
Frequency Band	698-894 MHz	894-960 MHz	1695-2180 MHz	2180-2700 MHz
Input Connector Type	2x N-Type or 2x 4.3-10 DIN or 2x 4.1-9.5 DIN Connector (F) with cable (12"/30cm length)			
Horizontal Beamwidth	Omni			
Impedance	50 Ω			
VSWR/ Return Loss	<1.7:1 / 11.8 dB	<1.8:1 / 10.9 dB	<1.7:1 / 11.8 dB	<1.5:1 / 14.0 dB
Max. Gain	3.5 dBi	3.7 dBi	5.9 dBi	6.3 dBi
Avg. Gain	2.4 dBi	3.0 dBi	4.4 dBi	5.5 dBi
Peak PIM@2x 43 dBm	4.3-10 DIN <-153 dBc N-Type / 4.1-9.5 DIN <-150 dBc			
Inter-port Isolation (typ.)	-20 dB		-25 dB	-30 dB
Input Power	50 W at ambient temperature of 77° F (25° C)			

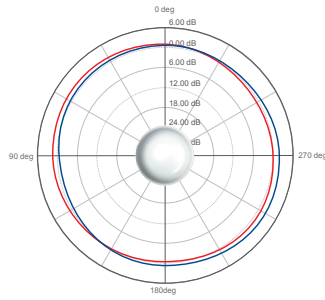
Mechanical Specifications	
Operating Temperature	-40° to 158 °F (-40° to +70°C)
Environmental Conditions	Indoor
Antenna Weight	0.95 lbs (0.43 Kg)
Antenna Dimensions (Diameter / Height)	8.19" / 2.83" (208mm / 72mm)
Radome Flammability Rating	UL 94-V0
Radome Color	RAL 9016 (white)*
Radome Material	PC/ABS
RoHS	Compliant
Cable	Plenum Rated
Approved for use in Plenum Space	Listed & tested by Intertek / ETL
Shipping Weight (Gross Weight)	3.3 lbs (1.5 Kg)
Shipping Dimensions	12.2" x 10.6" x 8.6" / 310 x 270 x 220mm

* Radome can be painted with recommended paint "Krylon fusion for plastic"

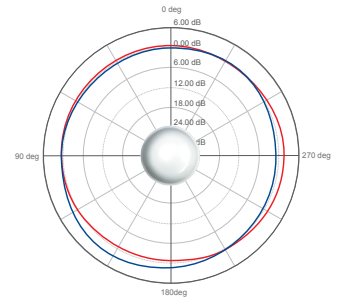
Release Date: 6. November 2015; Revision: E; Patent Pending



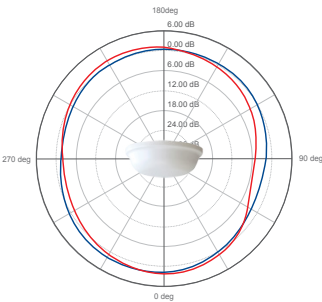
710 MHz



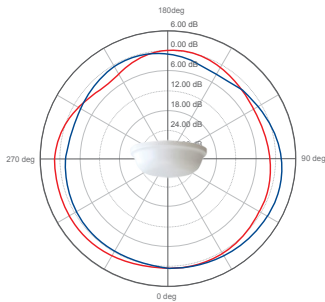
850 MHz



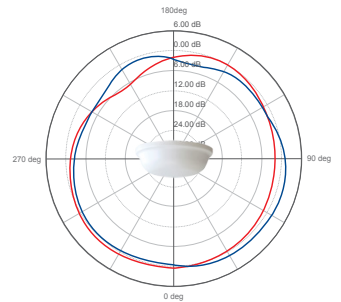
910 MHz



1710 MHz



1910 MHz

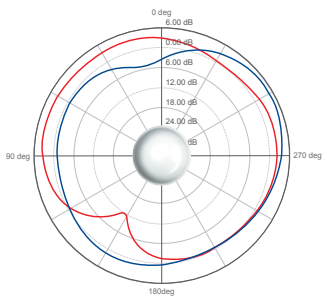


2170 MHz

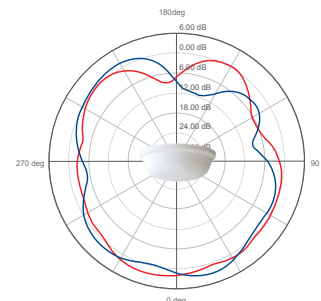
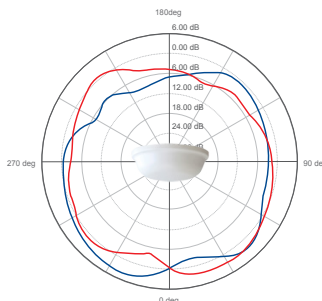
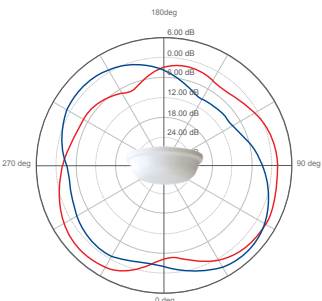
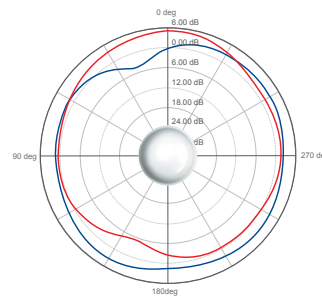
Port 1 ———

Port 1 ———

Port 2 ———



2500 MHz



Release Date: 6. November 2015; Revision: E; Patent Pending

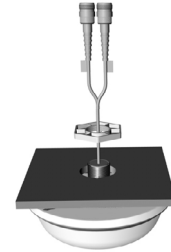
Mounting Options

This antenna can be mounted using any of the following mounting brackets. Optional mounting brackets need to be ordered as a separate line item. See Ordering Options for details.

Below Ceiling Installation (Standard)

Fasteners for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 1.18" (30mm). Drill a hole with a 1.18" (30mm) diameter into suspended ceiling and secure the antenna with supplied plastic nut.

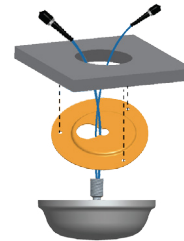
Included with antenna



Optional Hard Ceiling Mounting Bracket

The hard ceiling mounting bracket makes an antenna installation on suspended ceilings without a second access hole possible.

P/N: 62-31-09



Optional Above Ceiling Mounting Bracket

The antenna can be installed above a suspended ceiling by using the above ceiling mounting bracket.

P/N: 62-46-03



Ordering & Antenna Options

Part Number	Connector	Description
02121261-05542U	2x N-Type (F)	PEAR™ M5542i Antenna
02125261-05542U	2x 4.1-9.5 DIN (F)	PEAR™ M5542i Antenna
02130261-05542U	2x 4.3-10 DIN (F)	PEAR™ M5542i Antenna
62-31-09		Hard Ceiling Mount
62-46-03		Above Ceiling Mount