



TECHNICAL SPECIFICATIONS

DAS Antennas

Outdoor LPDA Dir Antenna (617-4200MHz)

LAL617-4200N (N Female Connector)

LAL617-42004 (4.3/10 Female Connector)

Liberty's antenna solutions are designed for DAS applications offering leading edge performance at an economical price.

OVERVIEW:

Liberty's outdoor, vertically polarized Log Periodic antenna is designed for demanding DAS antenna applications where high gain donor antennas are needed for off-air system configurations. With gain of 11dB in the high bands and a weather resistant Radome, this antenna is built to offer high quality signal for many years of service.

The antenna includes a pole mount bracket for deployments on roof tops attaching to infrastructure provided by others.



Log Periodic Dipole Antenna:
An ideal Donor antenna for
DAS deployments

FEATURES:

- Excellent gain up to 11.5dBi @ 3300-4200MHz
- Competitive Low PIM performance
- White, Outdoor Radome of UV stabilized ABS plastic

COMES WITH

- Mounting bracket for pole dia $\leq 2"$
- Pigtail cable and connector (see table)

BENEFITS:

- High performing antenna is low profile form factor
- Dependable design for optimal system performance
- Engineered for roof top deployments to operate throughout the life of the deployment
- To be attached to existing infrastructure
- Easy installation

Electrical Specifications

Frequency Range (MHz)	617-698	698-960	1710-2700	3300-4200
Gain (dBi)	8	9.5	11	11.5
VSWR	≤ 2.5	≤ 2.0	≤ 1.5	≤ 2.0
Polarization	Vertical			
PIM 3 rd Order, 2x20W (dBc)	≤ -153			
Front to Back Ratio (dB)	≥ 15			
Horizontal Beamwidth (degrees)	102	90	75	54
Vertical Beamwidth (degrees)	83	66	58	42
Input Impedance (Ohms)	50			
Max Input Power (Watts)	50			
Lightning Protection	DC Ground			

Ordering
Information

L
|
L=Liberty

A
|
A=Antenna

XX
|
Series
L=LPDA
Y=Yagi
PS=Panel SISO
PM=Panel MIMO
FS=Flat Omni SISO
FM=Flat Omni MIMO
DS=Dome Omni SISO
DM=Dome Omni MIMO

1234
|
Low Freq
in MHz

-1234
|
High Freq
in MHz

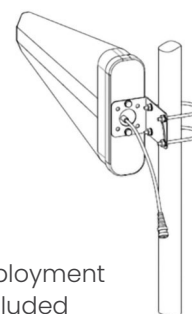
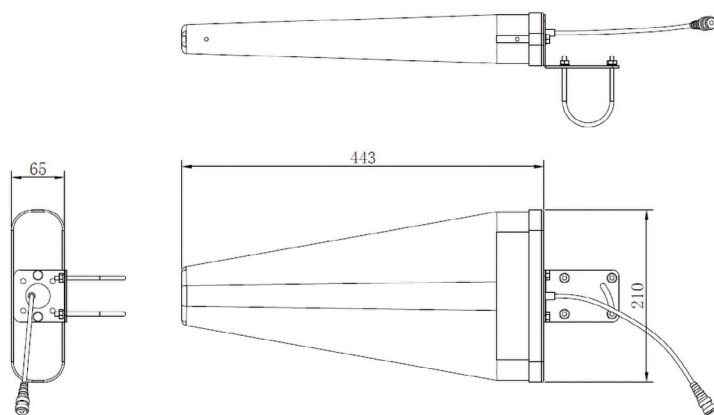
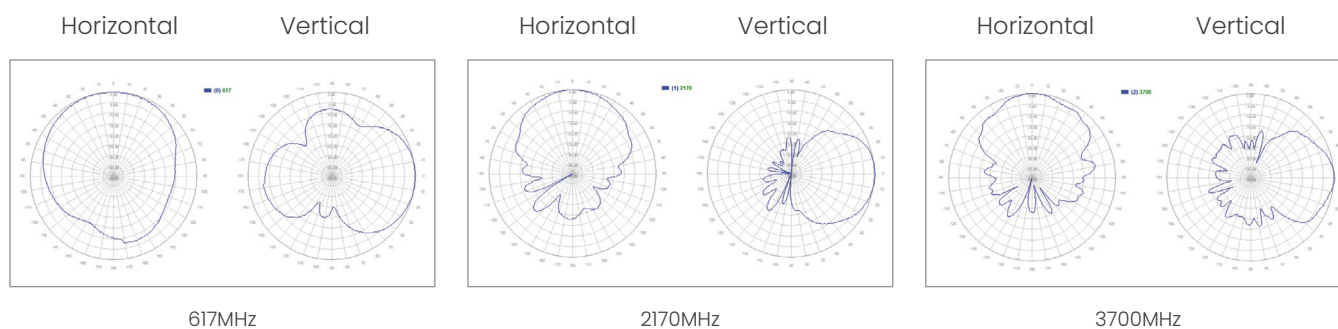
XX
|
Female
Connector 1 & 2
N=N Female
4=4.3/10 Female

XX
|
Custom
Alpha/
Num Code

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Mechanical Specifications	
Connector	N Female (PN: LAL617-4200N), 4.3/10 Female (PN: LAL617-42004)
Pigtail cable type, length	141 Coax plenum rated cable, 300mm
Radome dimensions (mm)	443 x 210 x 65
Weight (kg)	0.5
Reflector material	Aluminum
Radome material and color	ABS (UV Stabilized), White (per RAL 9003)
Operating temperature	-40 to +65 C
Mounting Pole dia range (mm)	38 to 52

RADIATION PATTERNS



Typical pole mount deployment
Pole mount bracket included