



TRANSAIR™ 220 MHz 3 dBi ANTENNA

Lilee Systems™ Omnidirectional Antenna for Mobile Wireless IP-Based Communication Applications



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FEATURES

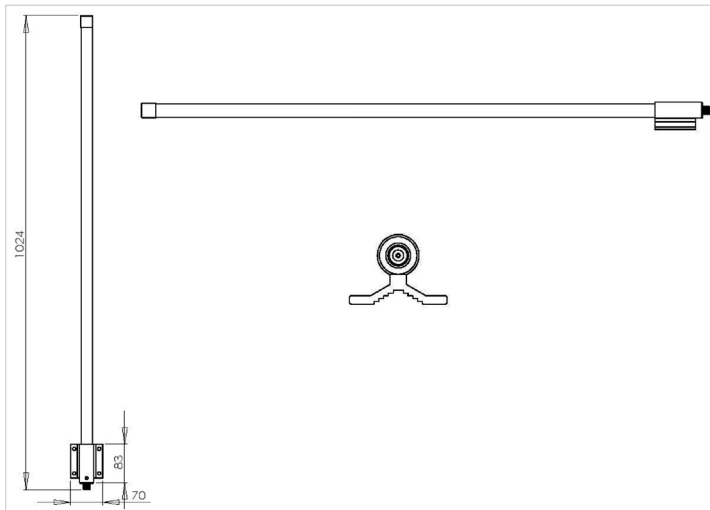
- Rugged design
- Wind Survival greater than 180 mph

INTRODUCTION

The TransAir 220 MHz 3 dBi omni antenna is designed for a wide range of wireless IP-based communication applications. It is rugged, capable of maintaining performance at wind speeds up to 180 mph (290 kmph) and is highly resistant to damage. The antenna's rugged construction provides increased reliability and ensures long life in extreme environmental conditions.

The TransAir 220 MHz 3 dBi omni antenna is specifically designed for use with Lilee Systems TransAir Communications System's PTC family of software-defined radios to deliver mission critical wireless communications for long-distance data/video transmission in monitoring and control applications from environmental to smart energy, disaster mitigation to transit and Positive Train Control.

MECHANICAL DRAWING

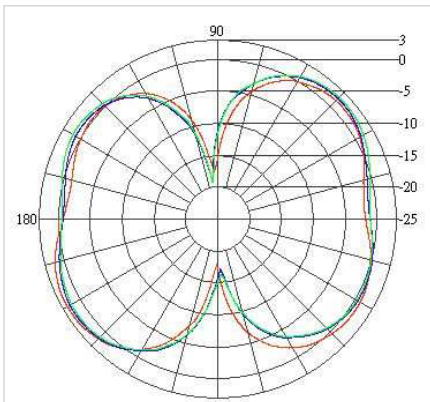


SPECIFICATIONS

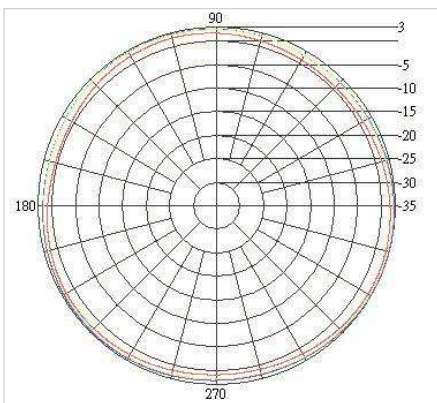
Frequency Range	217 - 222 MHz
Power Rating	200 W
Impedence	50 ohms
Antenna Type	Collinear
Pattern	Omni-directional
Polarization	Vertical
VSWR	<1.5:1
Vertical Beam-width	68°
Horizontal Beam-width	360°

RADIATION PATTERN

E-Plane



H-Plane



SPECIFICATIONS

	E-PLANE	H-PLANE
Max Gain (dBi)	2.26	2.97
Min Gain (dBi)	1.84	2.33
Average Gain (dBi)	2.02	2.67
Half-Power Beam Width	68.12°	360°
Front-to-back Ratio (dBi)	0.60	1.12
Connector	N-Type Female Connector	
Randome Material	White Fiberglass	
Ground Material	Alluminum or Copper	
Wind Survival	Greater than 180 mph	
Dimensions	3.27 in x 2.76 in x 40.31 in (83 mm x 70 mm x 1024 mm)	
Weight	1.59 lbs (720 g)	
Mounting	Pole mount/Well mount; 27 mm - 51 mm clamps	