FM-TUBE

Directional Endfire Array Antenna

This 5 GHz dual port, dual polarized directional array antenna provides high gain and

confined field, enabling a variety of broadband wireless applications. Due to its strong

directivity, FM-TUBE is the ideal choice for applications in tunnels and closed environments such as Train to Ground communications for metros and underground mobility.

The platform's discrete directional antenna technology combines two traditional antennas into

a single package without sacrificing performance. Unlike traditional panel antennas, this end fire array antenna is physically and visually less obtrusive making it ideal for installations with limited space availability.

FEATURES

- MIMO performance for optimized data speed and throughput
- Dual port, dual polarization package replaces two traditional directional panels
- · Gain and pattern optimized for point-to-point and point-to-multi point connectivity
- Small footprint design can accommodate tunnel or trackside installations with as little as 3,54" (9 cm) clearance
- Includes a robust wall/mast mount bracket designed to withstand maximum 56 m/s wind speed
- High front-to-back ratio allows for back-to-back mounting of antennas; ideal for trackside or roadside coverage

RF/ELECTRICAL SPECIFICATIONS

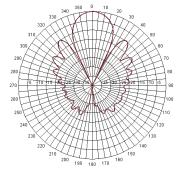
Frequency Range	4.9-5.9 GHz	
Peak Gain	14.6 dB	
Side Lobes	12-15 dB below peak	
E-Plane Beamwidth	25-35°	
H-Plane Beamwidth	25-35°	
Front-to-Back Ratio	> 35 dB	
Port-to-Port Isolation	19 dB minimum	

MECHANICAL SPECIFICATIONS

Temperature Range	- 40°F to 158°F (40°C to +70°C)
Dimensions	1.57 x 1.57 x 11.18 in (40 x 40 x 284 mm)

TECHNICAL DATA

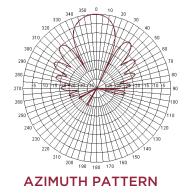
polarization
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ELEVATION PATTERN

NOTE: Radiation patterns reflect ground mounting. * Proper connector sealing could be needed





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