



Lodestar™ Massive MIMO

Airgain's high-performance base-station antenna is specifically designed for 64T64R massive MIMO applications. By virtue of antenna arrangement, this model exhibits two-dimensional beamforming capability with wide scanning angle. It is fully compatible with digital beamforming technology and digital pre-distortion (DPD) algorithm. As many as 64 RF transceivers can be integrated, which improves the spectrum efficiency, data throughput, and coverage. The antenna operates in the 3400-3800 MHz band, covering the CBRS and lower C-band. Airgain's antenna solution is the best choice for Open Radio Access Network (O-RAN) ecosystem.

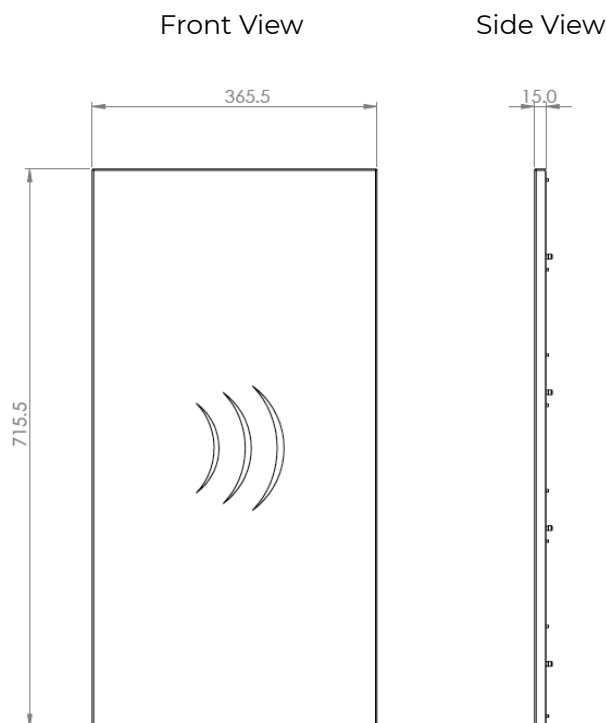
FEATURES

- Designed for 64T64R massive MIMO
- Support CBRS and C-band
- Average power handling > 40dBm per port

ADVANTAGES

- Extremely lightweight
- Wide scanning angle
- Excellent isolation
- Built-in bandpass filter (optional)

DIMENSIONS (in mm)



TECHNICAL SPECIFICATIONS

SPECIFICATIONS	RESULT	NOTE
Subarray Return Loss	-16 dB	
Cross-Pol Isolation	-22 dB	
Interband Isolation	-22 dB	
Half-Power Beamwidth (Ver. / Hor.)	6° / 12°	
Default Steer Angle (Ver. / Hor.)	-6° / 0°	Downtilt as default
Steering Range (Ver. / Hor.)	±4.6° / ±45°	Vertical: -10.6° ~ -1.4° Horizontal: -45° ~ +45°
SLL Suppression (Ver. / Hor.)	≥ 7 dB / 10 dB	At max steering angle
Max Gain	24.5 dBi	
Gain over Steering Range (Ver. & Hor.)	≥ 21 dBi	
Front-to-Back Ratio at 180° ± 30°	≥ 25 dB	
XPR over 3dB Beamwidth	≥ 20 dB	
XPR over 10dB Beamwidth	≥ 15 dB	
Dimension (L x W x D)	711 x 396 x 21 mm	w/o radome
Frequency	3400 – 3800 MHz	