

Mini Wall Mount 4G/5G Cellular Antenna

Manufactured for Connected IoT Limited

Model CI-MINI-3800

690–960 MHz / 1710–3800 MHz | 5 m Low Loss Cable | SMA Male | IP65

Product Overview

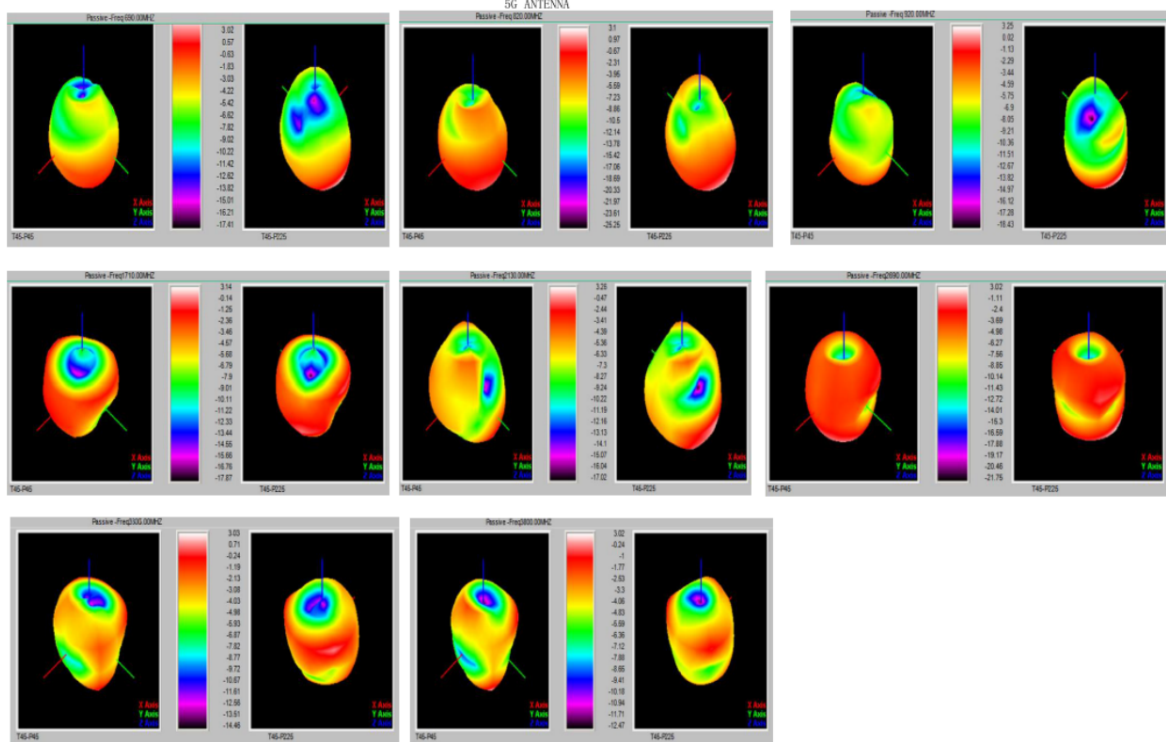
Compact wideband wall-mount cellular antenna for IoT, router and connected-device installations. Designed for indoor and outdoor use, the custom configuration uses a 5 metre LMR200 low-loss 50 Ω coaxial cable with SMA male connector and is supplied with a metal wall-mounting bracket. It supports cellular applications operating within the specified 690–960 MHz and 1710–3800 MHz frequency ranges.

Technical Specifications

Parameter	Specification
Model	CI-MINI-3800
Frequency range	690–960 MHz / 1710–3800 MHz
Cellular applications	4G LTE / 5G; applicable legacy cellular bands within stated frequency ranges
Nominal gain	3.0 dBi
Measured gain	3.02 dBi inspection result; 3.00–3.32 dBi across listed test points
VSWR	≤ 2.0 (measured: 1.81)
Maximum power	50 W rated
Impedance	50 Ω
Polarisation	Vertical
Connector	SMA Male
Cable	5 m low-loss 50 Ω coaxial cable
Cable length	5000 ± 50 mm (measured: 5011 mm)
Antenna height	96 ± 2 mm (measured: 96 mm)
Temperature range	–40°C to +85°C
Environmental rating	IP65
Installation environment	Indoor / Outdoor
Mounting	Wall mount with metal mounting bracket

RF Radiation Pattern Test

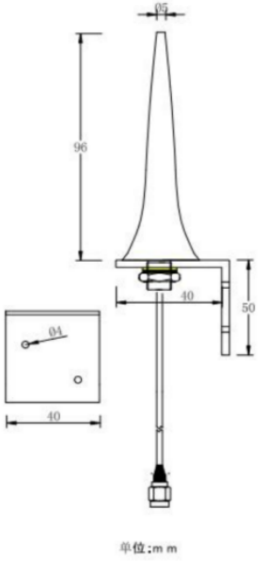
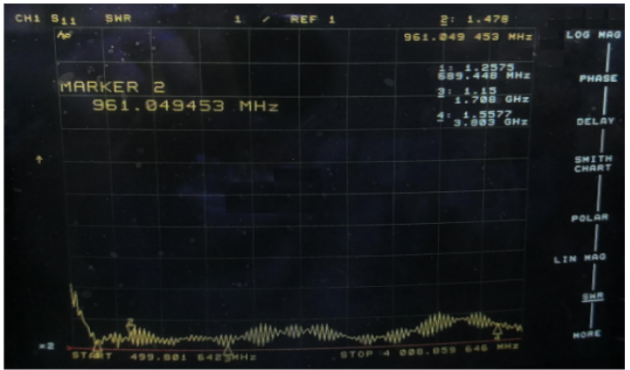
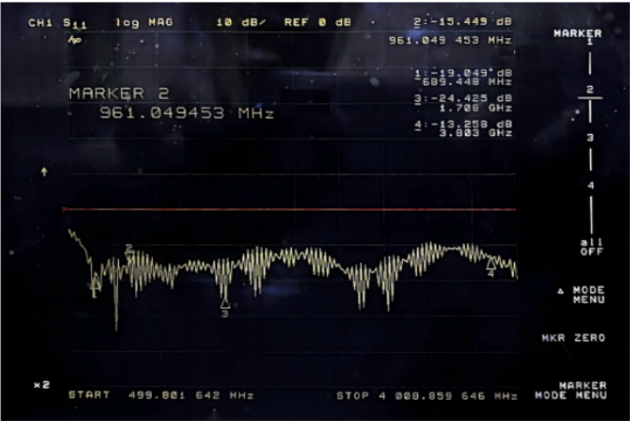
Product inspection report



RF Measurement Results

Test Point ID	Freq. (MHz)	Gain (dBi)	Efficiency (%)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBi)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	690.0	3.02	58.7%	120	270	-17.41	0	0	-2.70	20.38	5.67	-14.71
2	740.0	3.00	59.6%	120	270	-16.96	30	210	-2.83	20.25	6.12	-14.13
3	780.0	3.07	59.5%	120	270	-24.49	30	210	-2.88	27.92	6.31	-21.61
4	820.0	3.10	60.3%	150	120	-25.25	0	0	-2.55	27.86	5.16	-22.69
5	870.0	3.27	62.3%	120	270	-24.77	30	210	-3.05	27.83	6.11	-21.72
6	920.0	3.25	64.6%	120	270	-18.43	30	210	-2.77	19.60	5.95	-13.66
7	960.0	3.32	65.9%	120	270	-20.25	60	210	-2.66	19.37	5.78	-13.59
16	1710.0	3.14	68.2%	150	300	-17.87	30	210	-2.17	18.84	5.14	-13.70
19	1815.0	3.17	67.9%	150	300	-12.74	30	210	-2.44	12.91	4.61	-8.30
22	1920.0	3.18	73.1%	150	300	-10.86	0	0	-2.49	11.55	4.18	-7.37
25	2025.0	3.25	69.1%	120	120	-20.51	0	60	-2.78	19.66	4.94	-14.72
28	2130.0	3.26	70.9%	120	120	-17.02	60	270	-3.25	16.52	4.75	-11.76
30	2200.0	3.28	72.7%	120	270	-16.72	0	120	-3.38	16.17	4.83	-11.34
33	2305.0	3.18	70.4%	120	120	-15.24	0	150	-1.53	17.89	5.18	-12.70
36	2410.0	3.25	71.4%	150	150	-16.96	30	150	-2.05	18.81	4.90	-13.91
39	2515.0	3.32	71.3%	120	60	-12.73	0	0	-2.29	12.90	3.45	-9.44
42	2620.0	3.01	66.8%	60	240	-17.96	0	0	-1.46	18.97	3.47	-15.50
44	2690.0	3.02	66.2%	120	300	-21.75	0	150	-2.76	21.94	3.94	-18.00
45	2700.0	3.05	58.7%	120	270	-17.41	0	0	-2.70	20.38	5.67	-14.71
46	3300.0	3.03	63.8%	60	240	-17.96	0	0	-2.46	18.97	3.47	-15.50
47	3600.0	3.02	57.5%	120	300	-17.18	0	150	-2.90	17.65	3.38	-14.28
48	3800.0	3.02	56.9%	120	300	-21.75	0	150	-3.76	21.94	3.94	-18.00

VSWR, Return Loss & Mechanical Drawing



Product Images

Image of the antenna:

