



Products Brochure

About us

FRACTOM is an engineering research laboratory founded in 2008 that specializes in design, development and manufacturing of high-class antennas.

Our philosophy is to deliver products of uncompromising quality. We achieve it by performing scientific research in the field of antenna technologies, holding our own patents, hiring extremely qualified employees, and extensively studying engineering solutions.

Our products are applicable to all wireless technologies in which antennas with offered specifications are required. Our work is focused on reliable and effective solutions, while our range of products is intended for commercial and military applications.

FRACTOM is ISO 9001 certified. All antenna products comply with ETSI standards. They also comply with the RoHS Directive.

We offer the best electrical and operating featured antennas for reasonable prices.

FRACTOM designs and manufactures antennas in the range of 20 MHz - 14 GHz with all types of polarization and technological implementations

High Quality
High Quality Antennas





Products

Antenna	Panel Antenna FR-A-2101	Panel Antenna FR-A-3101	Panel Antenna FR-A-5101	Panel Antenna FR-A-5201	Panel Antenna FR-A-5202	Dual Polarized Antenna FR-A-1201	Omni Antenna FR-A-2401	Omni Antenna FR-A-3901	MIMO Antenna FR-A-3601
Main Specifications						Coming Soon	Coming Soon	Coming Soon	Coming Soon
Frequency Range	2.2 - 2.8 GHz	3.0 - 3.8 GHz	4.5 - 6.3 GHz	4.9 - 6.0 GHz	4.9 - 6.0 GHz	1.75 - 1.90 GHz	700 MHz - 6.5 GHz	20 MHz - 6.5 GHz	3.0 - 4.0 GHz
Gain	18 dBi	20 dBi	23 dBi	16.5 dBi	16.0 dBi	12 + dBi	2 - 6 dBi	-8 dBi + 4 dBi	12 + dBi
VSWR, max	1.5	1.5	1.5	1.7	1.7	1.6	2	3.5	1.5
Polarization	Linear (Ver ; Hor)	Linear (Ver ; Hor)	Linear (Ver ; Hor)	Dual 0°; 90°	Dual ±45°	Dual 0°; 90°	Vertical	Vertical	Dual 0°; 90°
3 dB Beamwidth/H-E Plane	H pl. 20°; E pl. 19°	H pl. 16.5°; E pl. 16.5°	H pl. 9.5°; E pl. 12°	H pl. 30°; E pl. 18°	H pl. 30°; E pl. 18°	H pl. 90°; E pl. 30°	360°	360°	H pl. 50°; E pl. 20°
Interport Isolation				25 dB	25 dB	25 dB			25 dB
Dimensions	304.8 x 304.8 x 16.0 mm	304.8 x 304.8 x 16.0 mm	304.8 x 304.8 x 16.0 mm	185 x 185 x 16 mm	185 x 185 x 16 mm	304.8 x 304.8 x 16.0 mm	130 φ x 80 mm	180 φ x 90 mm	304.8 x 304.8 x 16.0 mm
Standard	ETSI – TS1 - TS3	ETSI – TS2; TS3	ETSI – TS4; TS5						
Input Power, max	35 Watt	35 Watt	35 Watt	35 Watt	35 Watt	35 Watt	50 Watt	50 Watt	35 Watt
Connector	N-Type, Female	N-Type, Female	N-Type, Female	2 x N-Type, Female	2 x cab. 145 mm. conn. MCX	2 x N-Type, Female	Connector: N-Type, Female	N-Type, Female	4 x N-Type, Female

The main feature for all FRACTOM developments is the ability to achieve the maximum possible operating frequency range with the maximum possible gain of the antenna. This allows using our antennas in a wide variety of telecom standards with a greater functioning efficiency while a given antenna dimensions.

