

Antennas

Rev. A



Through 23 years, Allis Communications has been specializing in producing GPS Antenna, GNSS Antenna, Iridium Antenna and GPS/CELLULAR/WiFi Combination Antenna. Our main products include Satellites Antennas, Cellular Antennas, WiFi Antennas, Combination Antennas, MIMO Antennas, Patch Antennas and GPS Receiver System.

For IoT applications, Allis Communications also design and produce HIGH PERFORMANCE antennas for Airport Security and Train/MRT Transportation System.

KEY FEATURES

- ✓ High quality production & workshop test
- ✓ Optimizing at 3D RF Chamber
- ✓ A selection of wider-band frequency
- ✓ Cost-effective design
- ✓ Compact & Light weight
- ✓ Screw Permanent or Magnetic mounting
- ✓ IP56 or IP67 water-proof
- ✓ Custom connectors and cable available
- ✓ RoHS 、 CE compliance

GPS ANTENNAS



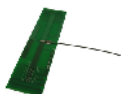
Model No.	X830B	M Series	L Series
Amplifier Gain	27dB@2.7V/ 36dB@6VDC	14~29dB	14~29dB
Noise Figure	1.5dB Typ.	0.9 dB max.	0.9 dB max.
DC Voltage	2.7~6 V	DC 2.7~5.5V	DC 2.7~5.5V
DC Current	9.5±2.5mA	3~6mA	3~6mA
Weight (w/o Cable)	32 grams	42 grams	46 grams
Dimension (mm)	36x36x13.9	48x40x13	50x50x17
Waterproof	IP67	IP56	IP56

GNSS ANTENNAS



Model No.	MBA20	W5GGR	M828G / M820G
GPS L1	✓	✓	✓
GPS L2	✓	N/A	N/A
GLONASS L1	✓	✓	✓
GLONASS L2	✓	N/A	N/A
BDS B1	✓	✓	N/A
BDS B2	✓	N/A	N/A
BDS B3	✓	N/A	N/A
Galileo E1	✓	✓	✓ N/A
Waterproof	IP67	IP67	IP56

CELLULAR ANTENNAS



Model No.	GCRC2	CE400	CE300
LTE 700/800MHz	✓	✓	✓
AMPS	✓	✓	✓
GSM	✓	✓	✓
DCS 1800	✓	✓	✓
PCS 1900	✓	✓	✓
WCDMA	✓	✓	✓
LTE 2600MHz	✓	✓	N/A
Peak Gain	3~5dBi	1.94~5.85 dBi	2.5dBi
Weight (W/O Cable)	280 grams	22 grams	5.8 grams
Dimension (mm)	100 Dia.× 67	13.5x(176.6± 2 /150.4±2)	118 *30*1.1

Band	Frequency Range
AMPS	804~896MHz
GSM	824~960MHz
DCS 1800	1710~1880MHz
PCS 1900	1850~1990MHz
WCDMA	1920~2170MHz

IRIDIUM ANTENNAS



Model No.	MPIDM	CMIDM	GCRGI
Iridium Certified	✓	✓	✓
Iridium	✓	✓	✓
GPS	N/A	N/A	✓
Housing Material	ABS+PC	ASA	ASA
Weight (w/o Cable)	42 grams	75 grams	280 grams
Dimension (mm)	48x40x13	75mm Dia.* 15.8	100mm Dia.× 67
Mounting	Magnetic	Magnetic	Permanent
Waterproof	IP67	IP67	IP67

COMBINATION ANTENNAS



Model No.	AM460	GCREB	CM20B
GPS	✓	✓	✓
Iridium	✓	N/A	N/A
LTE	✓	✓	N/A
AMPS	✓	N/A	N/A
GSM	✓	✓	✓
DCS 1800	✓	✓	✓
PCS 1900	✓	✓	✓
WCDMA	✓	✓	N/A
2.4G	✓	✓	N/A
5G	✓	✓	N/A

ANTENNAS FOR TRAIN/MRT/AIRPORT



Model No.	FC512	FA518	FB512
Frequency	5.1~5.8GHz	5.4~5.9GHz	5.1~5.8GHz
Average Peak Gain(Port1)	13.5 dBi	18dBi typ.	13.9dBi
Average Peak Gain(Port2)	12.0 dBi	18dBi typ.	12.1dBi
Average Efficiency(Port1)	85%	55% typ.	84.60%
Average Efficiency(Port2)	83%	55% typ.	82.10%
3dB Beam Width(Port1)	XZ: 15° / YZ: 55°	XZ: 18° / YZ: 18°	XZ: 15° / YZ: 55°
3dB Beam Width(Port2)	XZ: 15° / YZ: 60°	XZ: 18° / YZ: 18°	XZ: 15° / YZ: 60°