

External MIMO 4x5G NR Dome Antenna



AECR1808X4

Request Samples



Check Inventory



189 x 182 x 85 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Wide band : 600 MHz ~ 6 GHz
- MIMO 4x 5G NR/4G LTE
- Global 4G/LTE cellular band coverage including CAT M and NB-IoT
- 4 dBi Gain
- IP67 rated
- Screw Mount solution
- Fully customizable RF cable and connector options

Applications

- 5G
- IoT
- M2M
- Smart City
- Transportation
- Smart Agriculture
- Geolocation and Tracking
- 5G NR, CBRS, Private LTE, 4G LTE applications

Product Image



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Part Number Builder

AECR1808X4 -

Color / UV Coating	
Code	Description
S (Standard)	Black without UV coating
A	Black with UV Coating
B	White without UV Coating
C	White with UV Coating

Cable length in 'mm'	
Maximum cable length supported : LMR-100 (up to 3000 mm)	
Code	Description
3000 (Standard)	3000 mm
Other Examples :	
0200	200 mm
2000	2000 mm

Cable Type & Connector Type		
Code	Cable Type	Connector Type
S (Standard)	LMR-100	SMA (M)
A		FAKRA-D (F)
B		RP-SMA (M)
C		SMB (M)
D		N-Type (M)
E		TNC (M)
F		BNC (M)
G		MCX (M)
H		MMCX (M)
I		FME (M)
J		FME (F)

Example Configurations :

Part Number	UV Protection Coating / Color	Cable length	Cable Type / Connector Type
AECR1808X4 S - <u>3000</u> S	No / Black	3000 mm	4xLMR-100 with 4xSMA (M) for 5G NR (Standard)
AECR1808X4 A - <u>1000</u> A	Yes / Black	1000 mm	4xLMR-100 with 4xFAKRA-D (F) for 5G NR

Note :

- For the standard part number (AECR1808X4**S**-3000**S**), please refer to the packaging at the end of the document.
- For additional configuration (AECR1808X4 -), MOQs, pricing and packaging changes may be applicable.

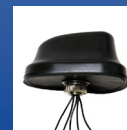


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Phone: 512-371-6159 | Fax: 512-351-8858
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Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
MIMO 4x 5G NR (Main + Aux)				
Operating Frequency	600		6000	MHz
VSWR			4.0	
Peak Gain			4	dBi
Impedance		50		Ω
Polarization	Linear			
Power Rating			10	W

Mechanical Specification

Parameter		Specification
Antenna Dimension		189 x 182 x 85 mm
Material		PC + ABS
Mounting Type		Screw
RF Cable Type		4 x LMR100
RF Cable Length		3 m
RF Connector		4x SMA (M)
Mounting Torque	Recommended	1.5 ~ 3 Nm
	Maximum	5 Nm

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating	IP67 (Excluding Cable Outlet)
UL Rating	UL-HB
RoHS Compliance	Yes
PB Free	Yes
MSL	1
ESD Sensitive	Yes
Relative Humidity	Up to 95%
Vibration	10 ~ 55 Hz with 1.5 mm amplitude 2 hrs



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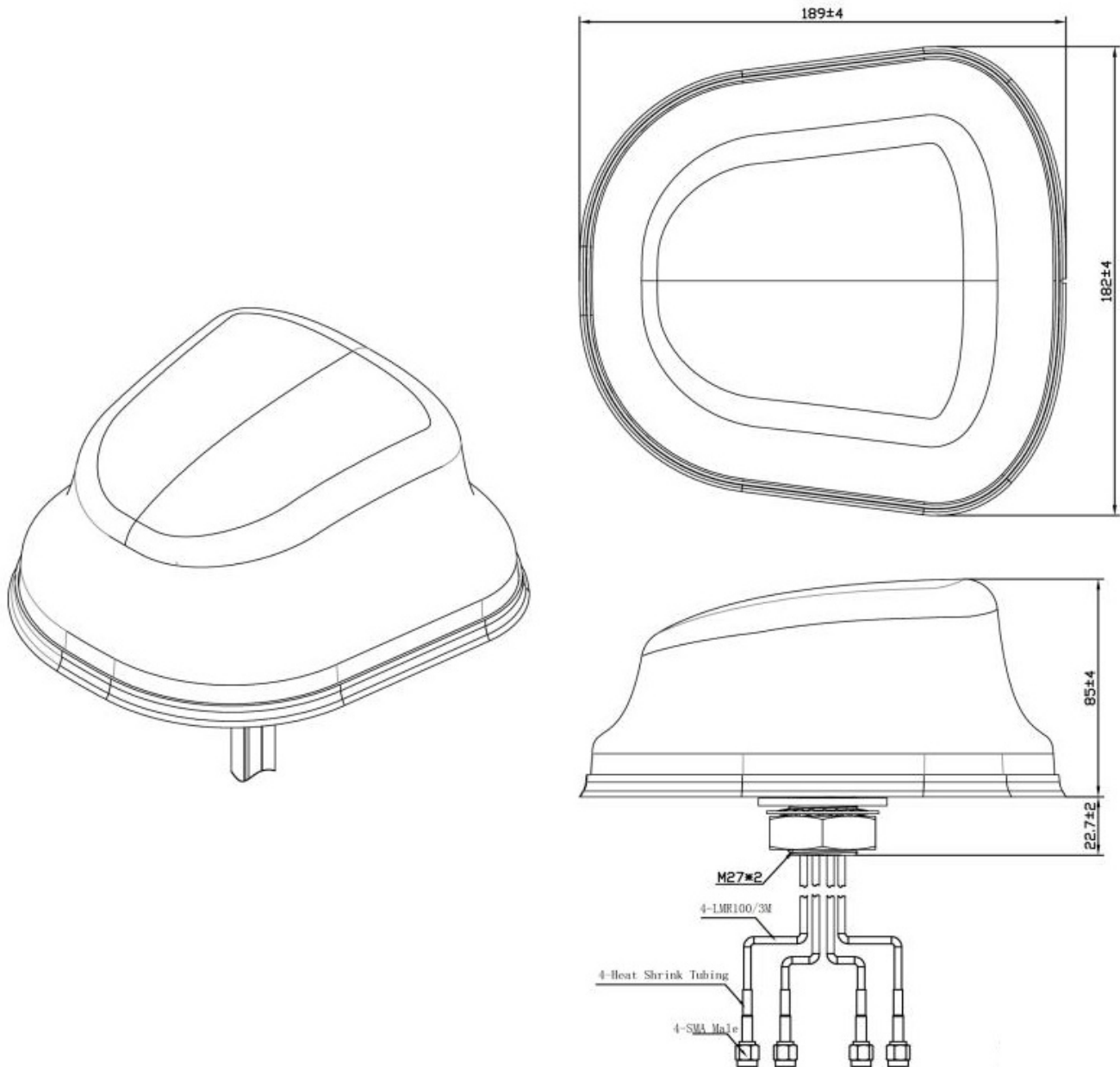


Check Inventory



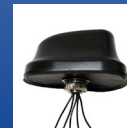
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Product Dimension



Unit : mm

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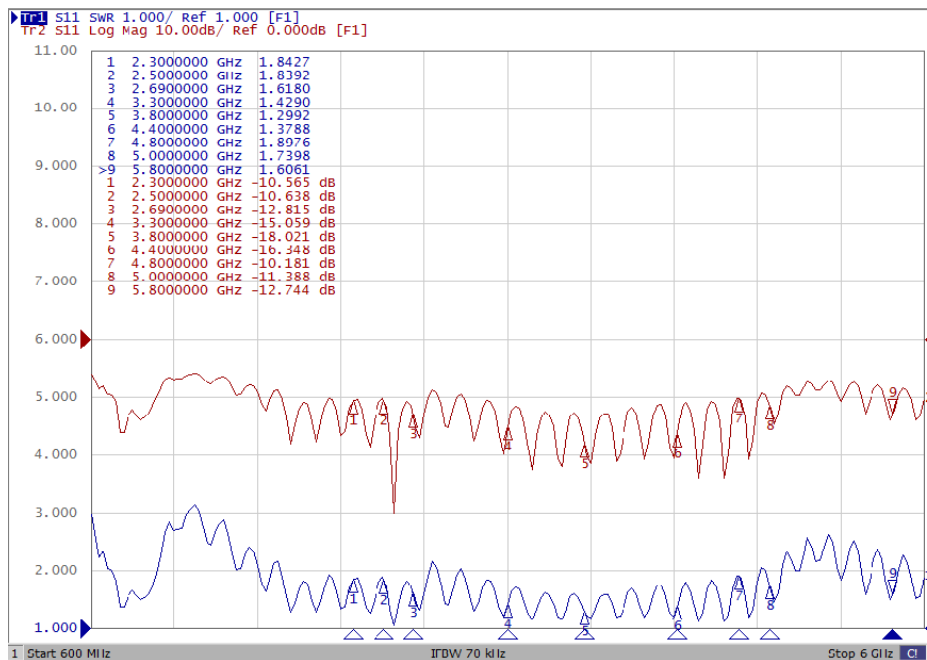
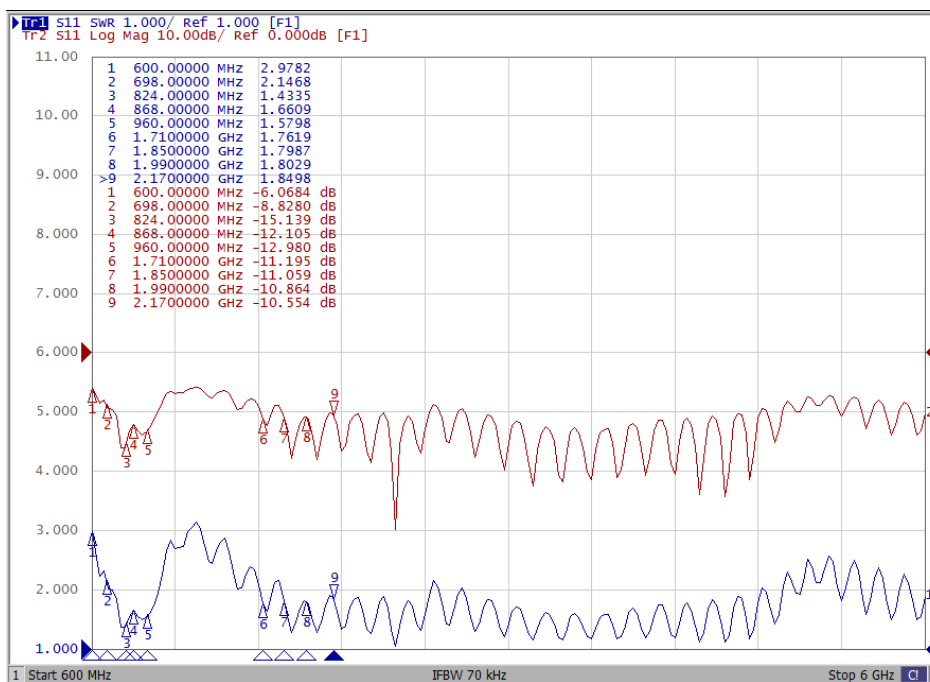


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Test Measurement - VSWR



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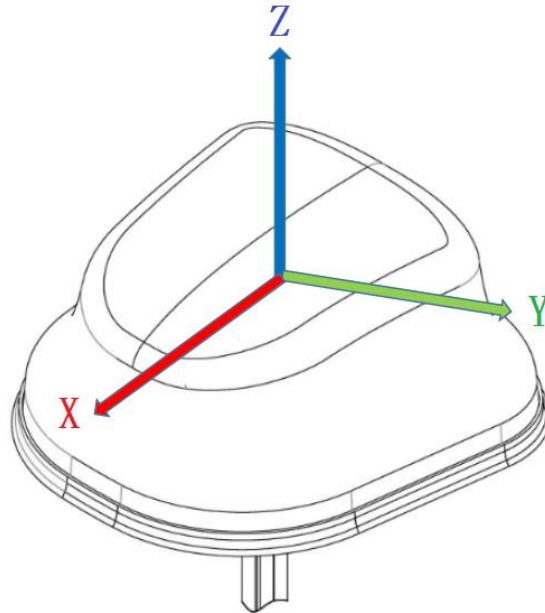


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Radiation Characteristics



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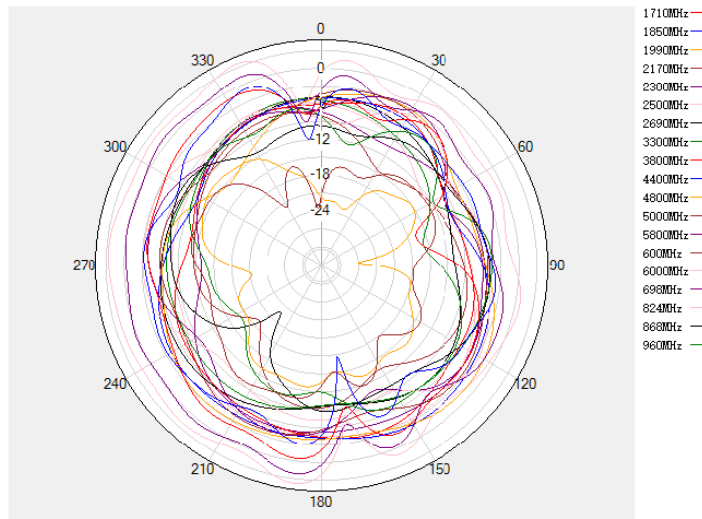


189 x 182 x 85 mm
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MSL Level = 1

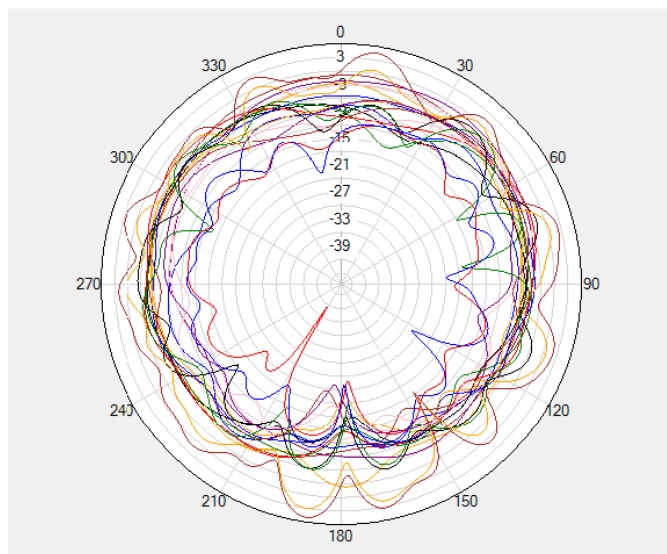
4x 5G NR : Main & Aux

2D Pattern

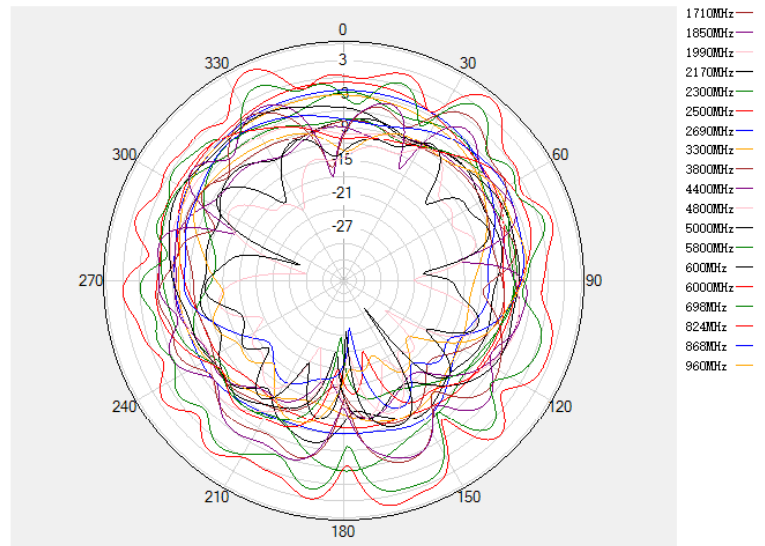
XY - Plane



XZ - Plane



YZ - Plane



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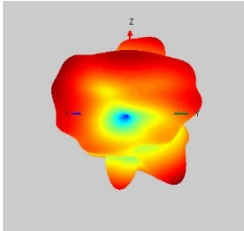
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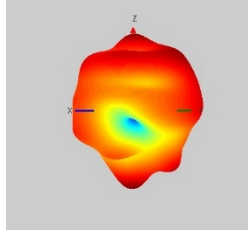
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3D Pattern

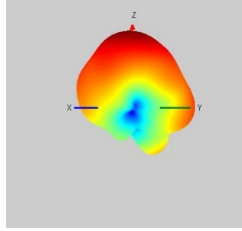
600 MHz



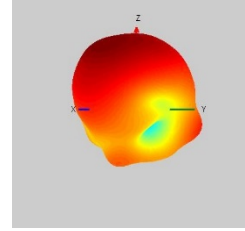
698 MHz



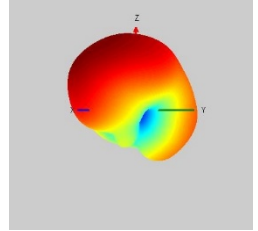
824 MHz



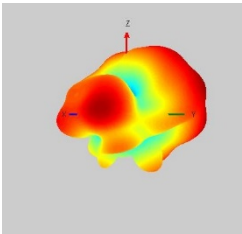
868 MHz



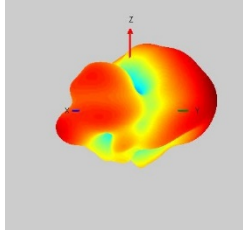
960 MHz



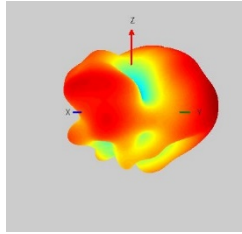
1710 MHz



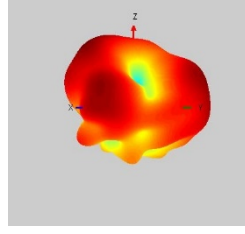
1850 MHz



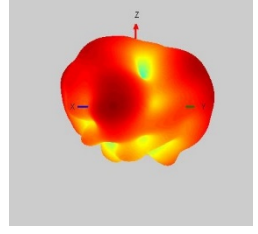
1990 MHz



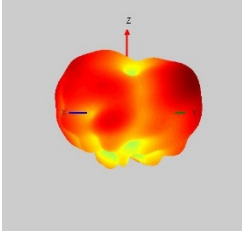
2170 MHz



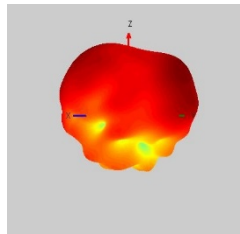
2300 MHz



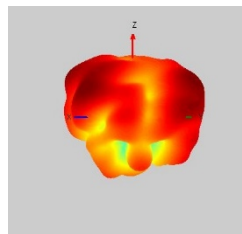
2500 MHz



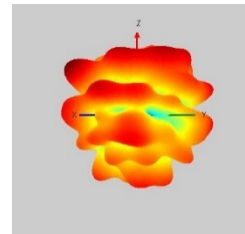
2690 MHz



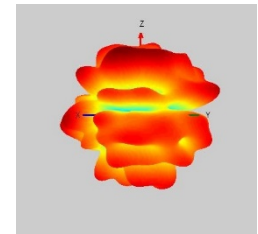
3300 MHz



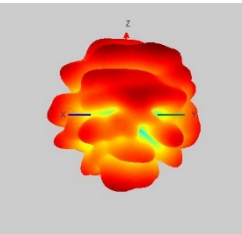
3800 MHz



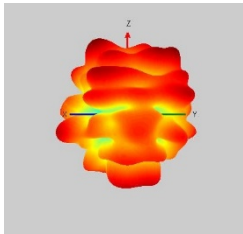
4400 MHz



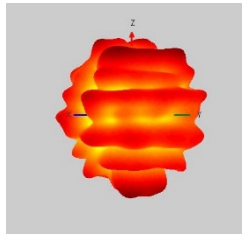
4800 MHz



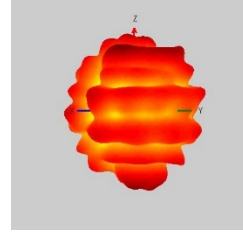
5000 MHz



5800 MHz



6000 MHz



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Efficiency & Gain

Frequency (MHz)	Efficiency	Gain (dBi)
MIMO 4x5G (Main + Aux)		
600	0.61	1.05
698	0.67	1.88
824	0.68	2.02
868	0.59	1.47
960	0.66	1.58
1710	0.59	1.03
1850	0.57	0.89
1990	0.59	0.77
2170	0.65	3.29
2300	0.63	2.57
2500	0.66	3.05
2690	0.67	1.38
3300	0.54	-0.27
3800	0.53	3.78
4400	0.66	2.08
4800	0.56	-0.19
5000	0.59	-0.62
5800	0.63	4.14
6000	0.62	4.05

Packaging Information

Number of Antenna/ Carton : 8 pcs
Dimension of the Carton : 430 x 430 x 340 mm
Weight of 1 pc of antenna : 950 g
Weight of the Carton : 9 kg

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