

# External antenna kit

## IRIS - ACCESSORY

Accessory kit for the IRIS gateway comprising an external LTE (4G) cellular antenna, a coaxial cable and a cable gland to ensure quick and neat on-site installation (watertight cable routing through the IRIS housing, secure mounting and watertight seal).

Recommended for improving the IRIS gateway's radio reception when installation space is limited (equipment room, basement, metal cabinet, distance from openings).

The extension cable allows the antenna to be positioned in the best location to optimise network coverage and signal quality.



AC0201-11 (with 5m cable length)  
 AC0201-13 (with 10m cable length)  
 AC0201-12 (with 20m cable length)

### ELECTRICAL PROPERTIES

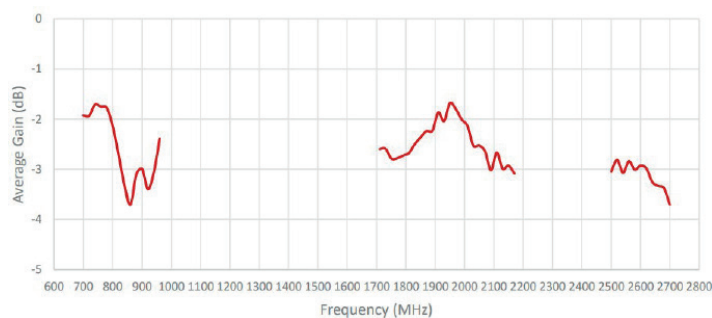
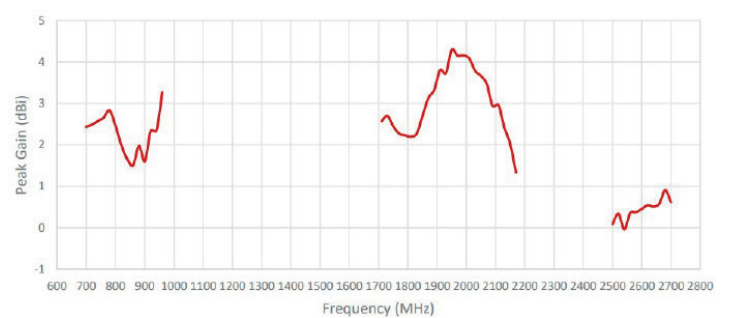
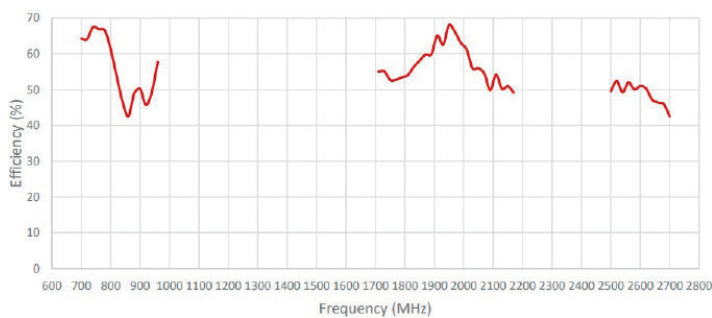
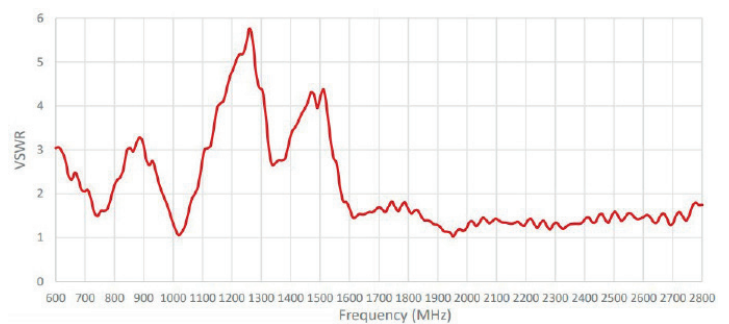
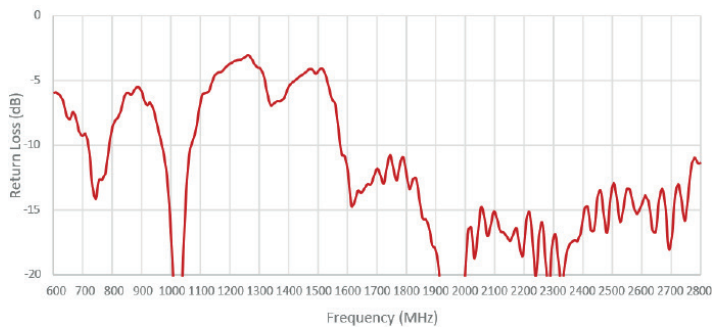
Standards	2G,3G and 4G		
Band (MHz)	700/850/900	1700/1800/ 1900/2100	2600
Frequency (MHz)	698960	17102170	25002700
Return Loss (dB)	~8.6	~16.8	~14.7
VSWR	~2.4:1	~1.4:1	~1.5:1
Efficiency (%)	~54.7	~56.8	~48.8
Peak Gain (dBi)	~2.2	~3.0	~0.4
Average Gain (dB)	~2.7	~2.5	~3.1
Impedance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	OmniDirectional		
Max. Input Power (W)	25		
Connector Type	SMA M		
Cable Length	10 M		
Cable Type	LL195		

## MECHANICAL PROPERTIES

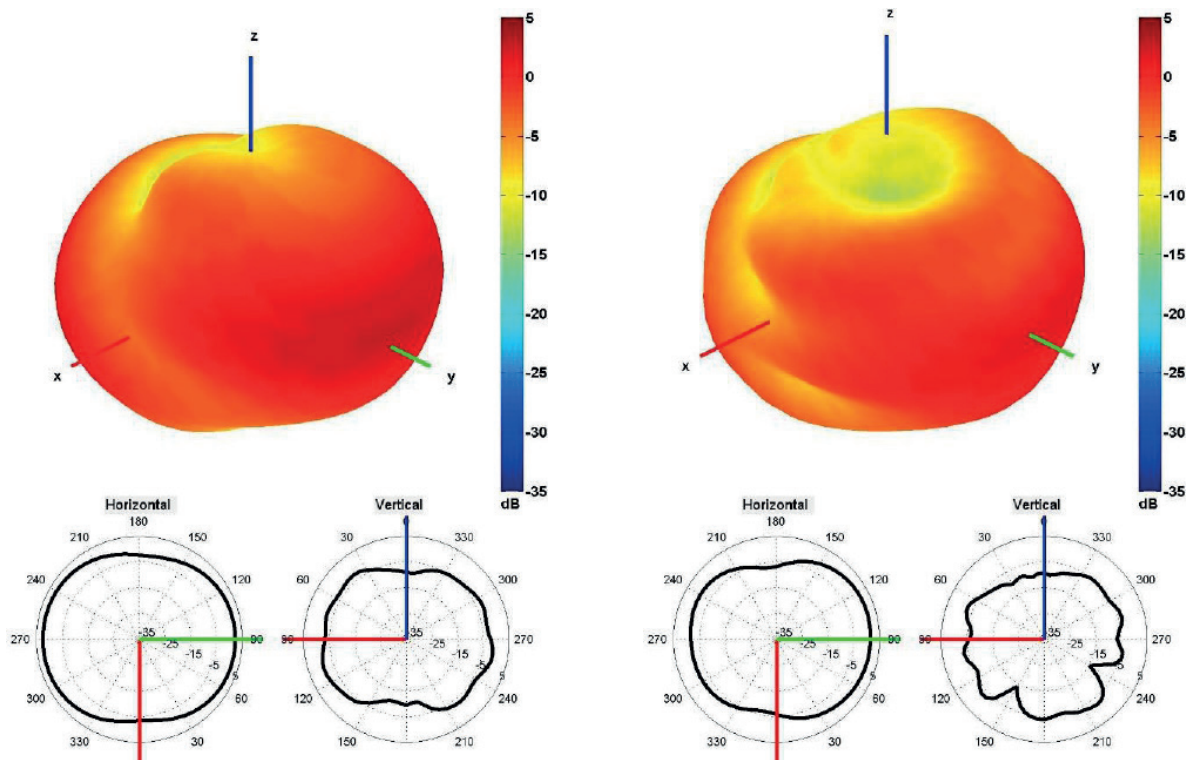
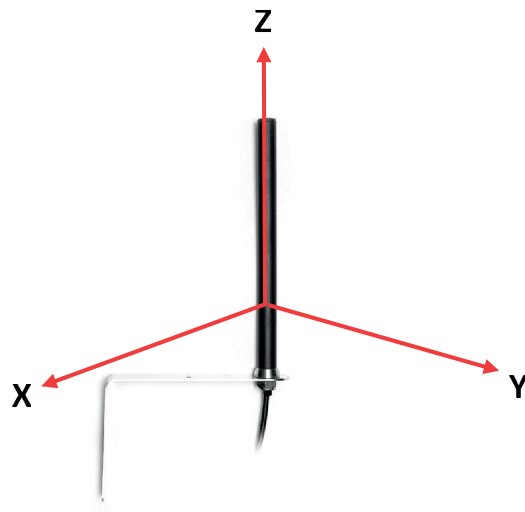
Additional accessories included	Cable + cable gland + nut
Cable length	5m, 10m or 20m
Mounting Type	Wall Mount
Dimensions (mm)	325 × 36 × 155 (220 × Ø 16mm)
Radome	ASA
Radome color	Black
Antenna Base	Brass
Bracket	Stainless Steel
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

## Antenna frequency parameters

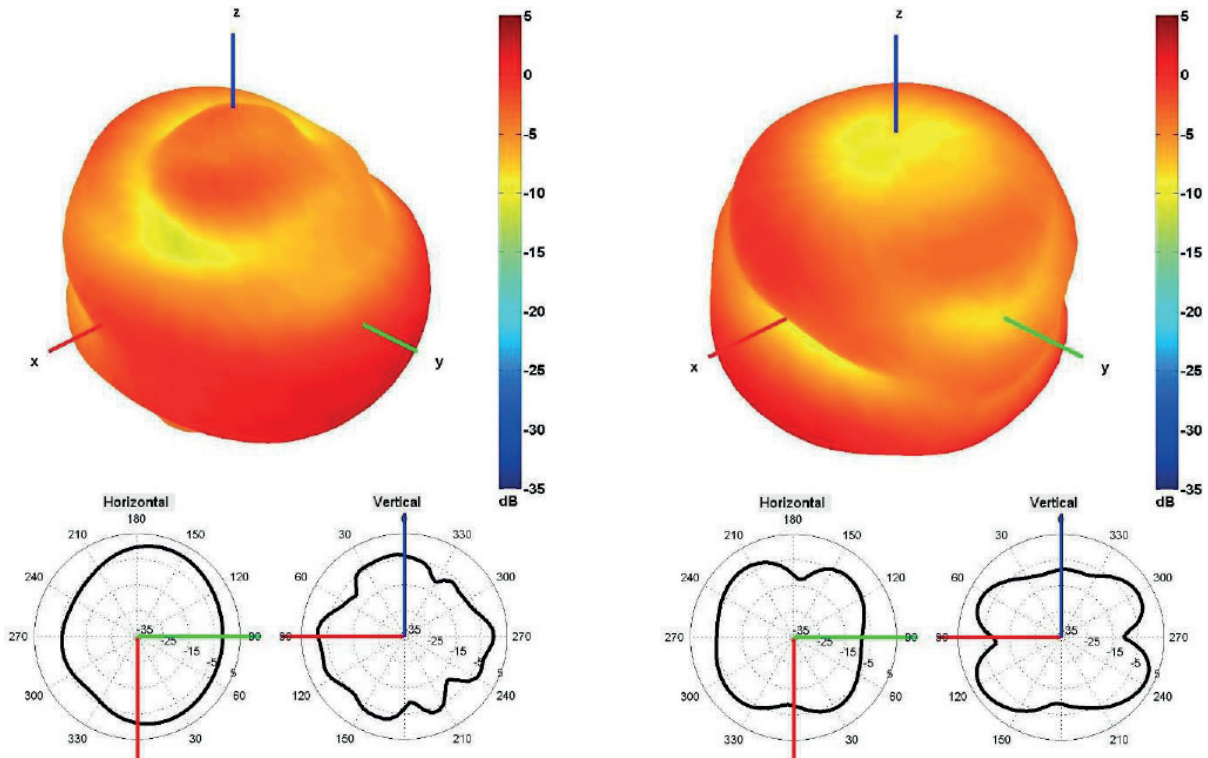
### Test data



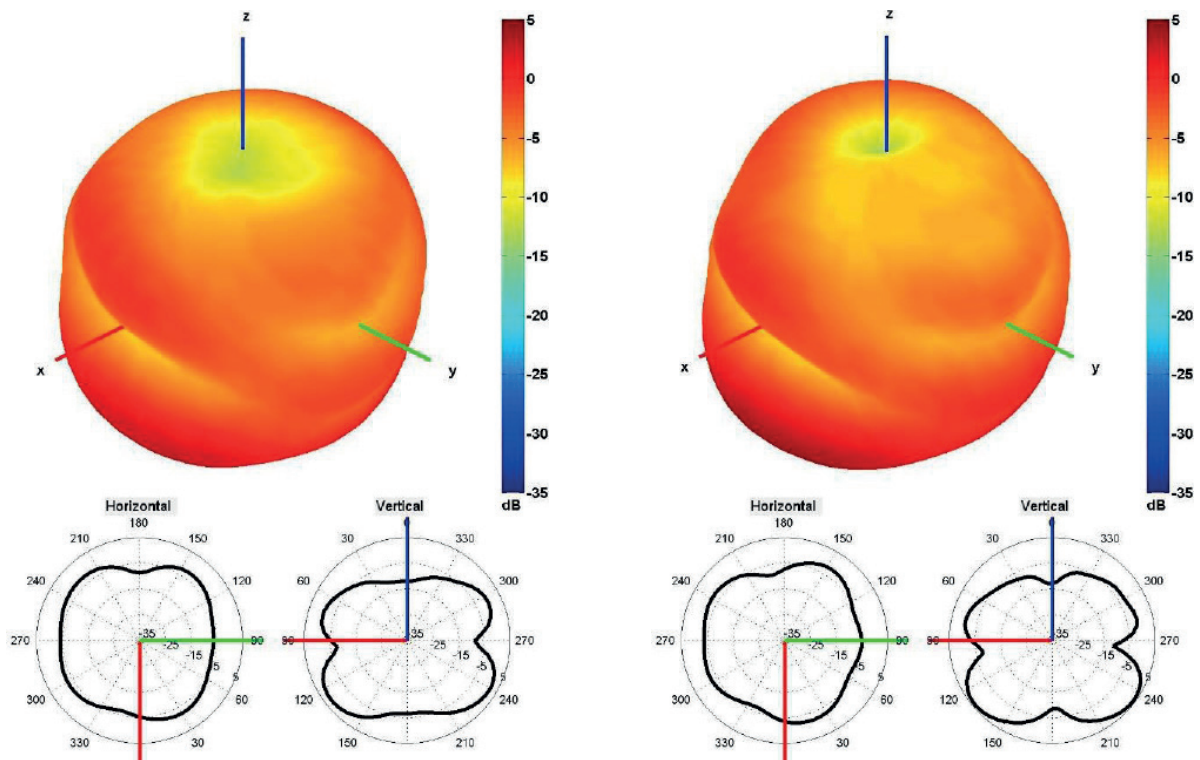
## Antenna - Radiation pattern test data



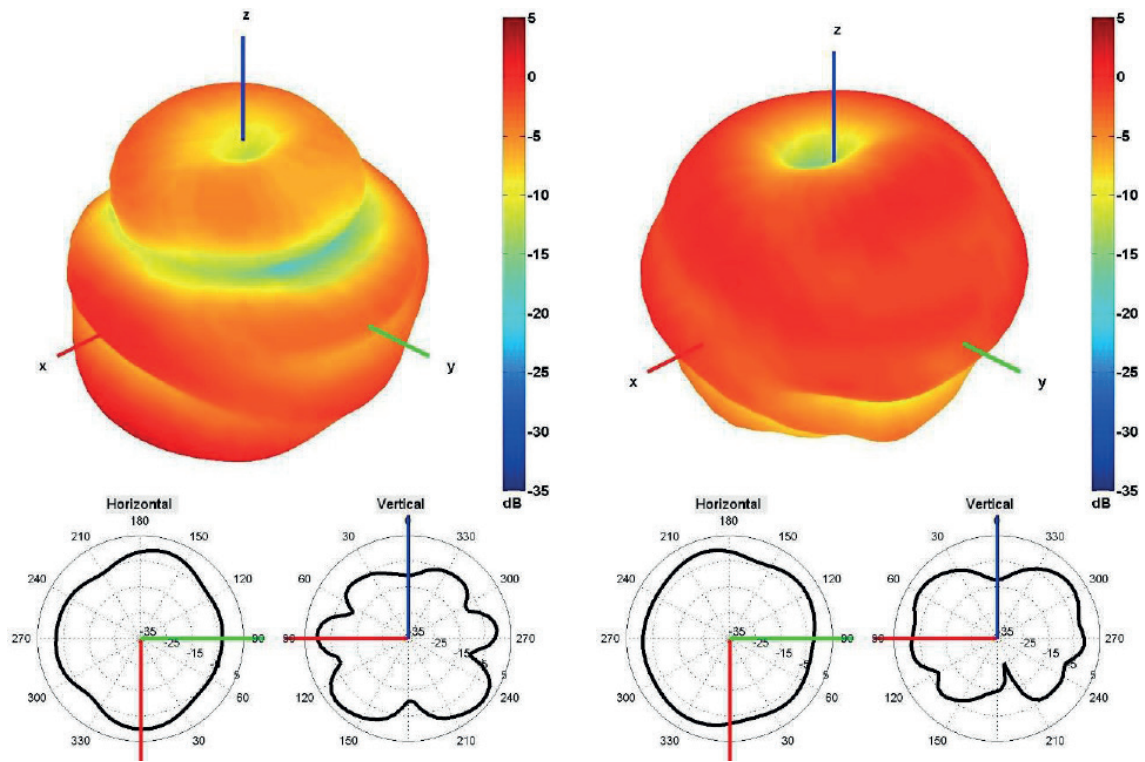
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

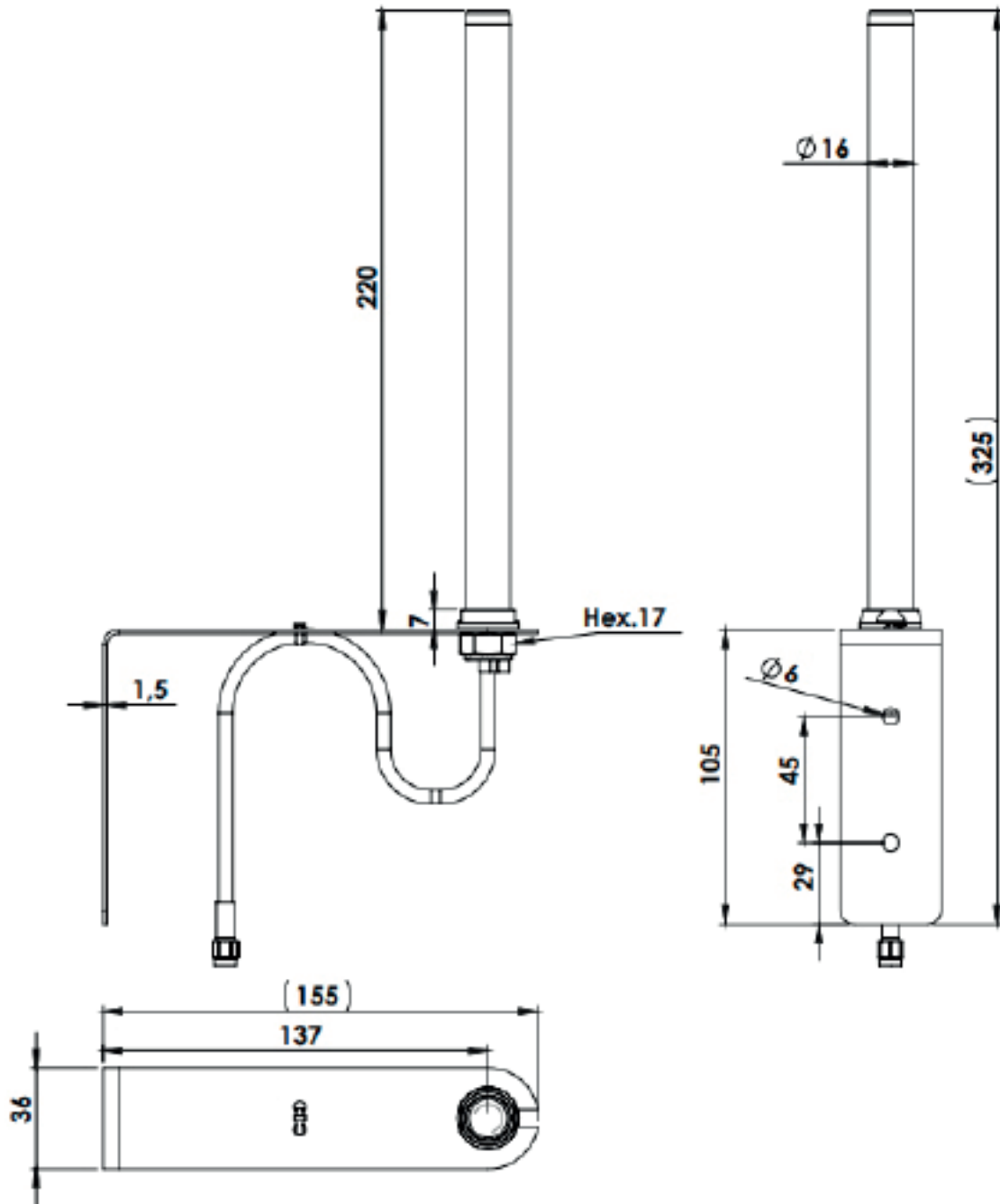


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

Antenna drawings



Antenna Images

