



# Dual Polarised Indoor Ceiling Mount LTE Antenna

790 – 960, 1710 – 2170, 2500 – 2700 MHz Bands

Product code: XPOL-A0004



The antenna provides an innovative and future proof solution for 4G / 3G and 2G networks. It is a ceiling mount (or any other conformal surface), indoor dual polarised, full LTE band antenna. Incorporating two separately fed ultra wideband elements in a single housing, the antenna is equipped to provide receive side MIMO and diversity support for the networks of today and tomorrow.

The antenna has an HDF 195 or LMR 195 2 x 0.5 metres of low loss cable. The antenna housing is designed to conform to a ceiling as well as blend in with other ceiling mounted devices and equipment hence making it less conspicuous and aesthetically pleasing.

This is a cost effective value added product for signal enhancement and ensures higher throughputs and stable links for subscribers. This will improve subscribers' user and "guarantee" client retention. It is ideal for any applications using the GSM network (LTE/HSPA/3G/EDGE/GPRS).

#### Features:

- Lightweight
- Aesthetically inclined
- VSWR<1.5 across all bands

#### Application areas:

- In-building coverage and capacity enhancement for BTS and CPEs



**Specifications:**

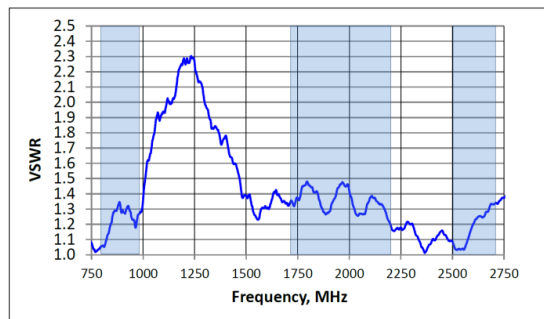
**Product Code:** XPOL-A0004  
**EAN:**  
**Features:** 5m twin HDF-195 with SMA (m) connector, ceiling mount

**Electrical:**  
 Gain (Max) 3.4 dBi  
 Gain (Nominal) 1.7 dBi  
 Input Frequency 790 – 960, 1710 – 2170, 2500 – 2700 MHz Bands  
 VSWR across operating bands < 2.5:1  
 DC Grounding Yes  
 Input impedance 50 Ohm (nominal)  
 Polarisation 2 x Linear ( $\pm 45^\circ$ )  
 Cable 2 x 5m HDF 195  
 Connector 2 x SMA male

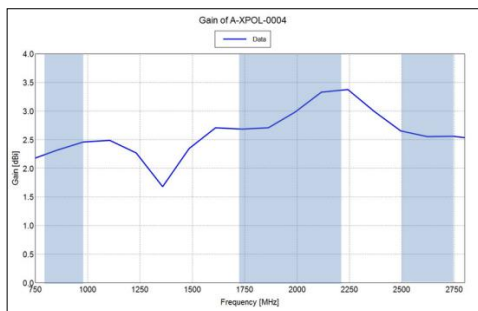
**Mechanical:**  
 Mounting Window, wall or pole  
 Dimensions (diameter x height) 200 x 160 mm  
 Radome Colour White  
 RoHS Compliant

**Environmental:**  
 Operating temperature -40 to +70°C  
 Environmental Conditions Indoor

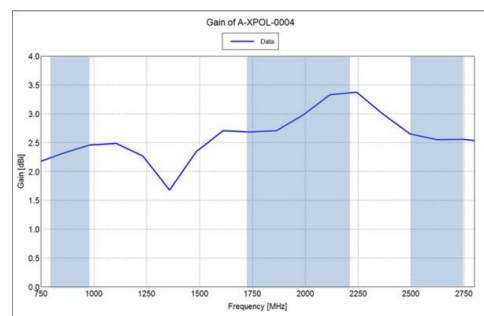
**VSWR:**



**Gain:**



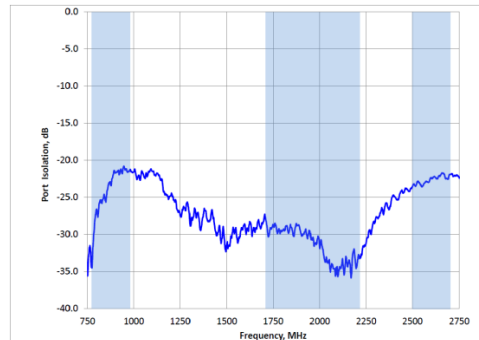
Gain Antenna 1



Gain Antenna 2

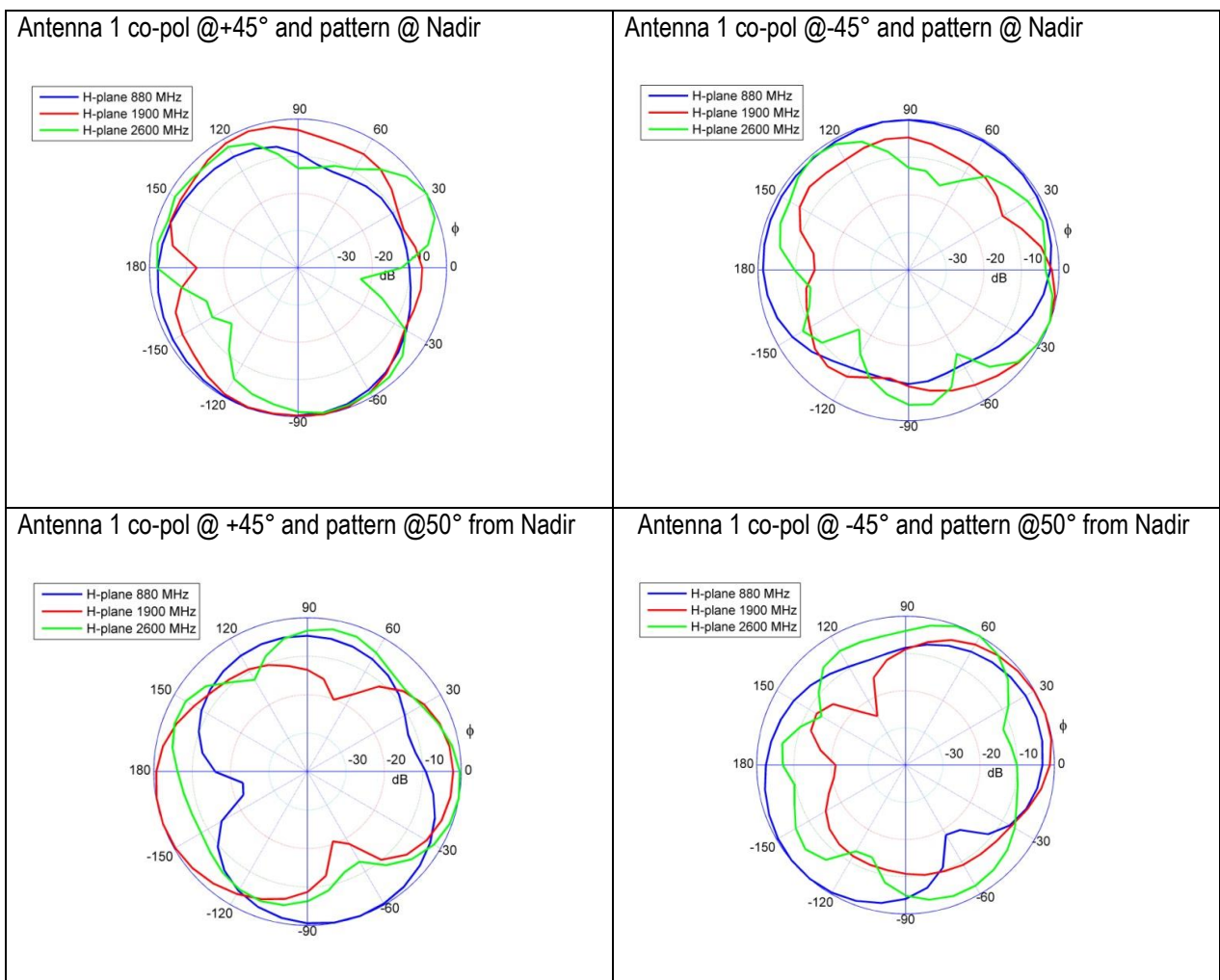


**Isolation Plot:**



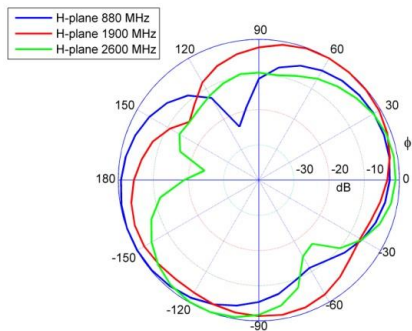
**Radiation Patterns:**

The following are the radiation patterns for each antenna. Please note that Nadir refers to the horizon with the antenna right side up (ceiling horizontal). The antennas are cross-polarized at 45° relative to one another and to the antenna ground.

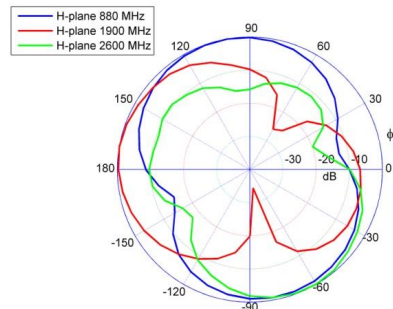




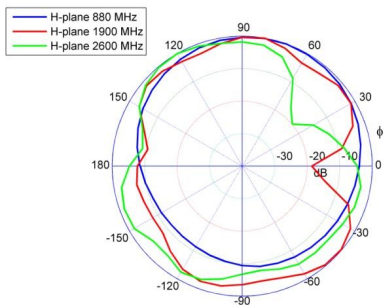
Antenna 1 co-pol @+45 and pattern @ 80° from Nadir



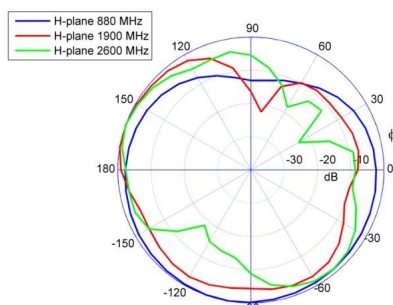
Antenna 1 co-pol @-45 and pattern @ 80° from Nadir



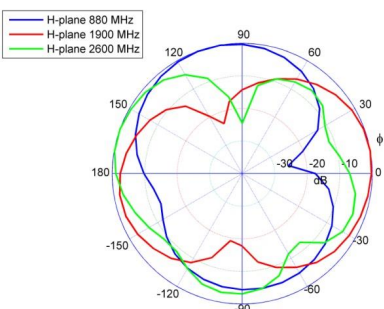
Antenna 2 co-pol @+45° and pattern @ Nadir



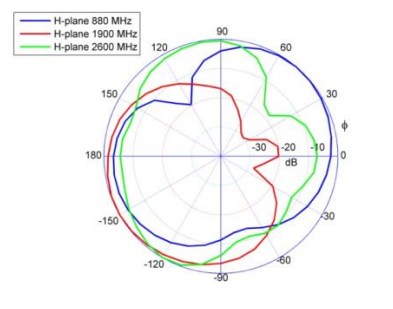
Antenna 2 co-pol @-45° and pattern @ Nadir



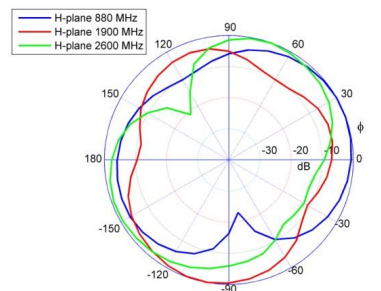
Antenna 2 co-pol @+45° and Antenna @ 50° from Nadir



Antenna 2 co-pol @-45° and pattern @ 50° from Nadir



Antenna 2 co-pol @+45° and pattern @ 80° from Nadir



Antenna 2 co-pol @-45° and pattern @ 80° from Nadir

