

SKU: XOMNI700-2700

Telco Omnidirectional Dual-Polarised Wideband Antenna: 700 – 2700MHz

- Triphaser Dual-Polarisation Technology for MIMO / LTE applications
- Dual-polarised antenna feed with high isolation (upper band)
- Single-polarised operation on low band 700-900MHz networks
- Compact weatherproof PVC radome
- Carrier aggregation ready.

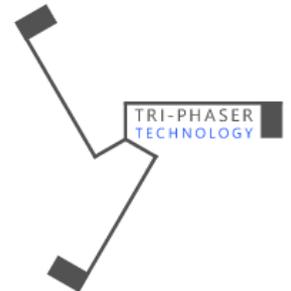


Harnessing ground-breaking Triphaser Technology the Telco XOMNI provides orthogonally polarised transmissions on the full 360° axis. This allows the connecting hardware to operate in true MIMO providing over 30dB of isolation between transmissions. Designed and produced to meet prescriptive specifications provided by major telecom operators, this compact antenna provides single port operation on lower band (698-960MHz), and full MIMO on upper band (1710-2690MHz). This configuration ensures operation on all 3G and 4G networks worldwide, with very high MIMO performance on upper bands used in metro and urban areas.

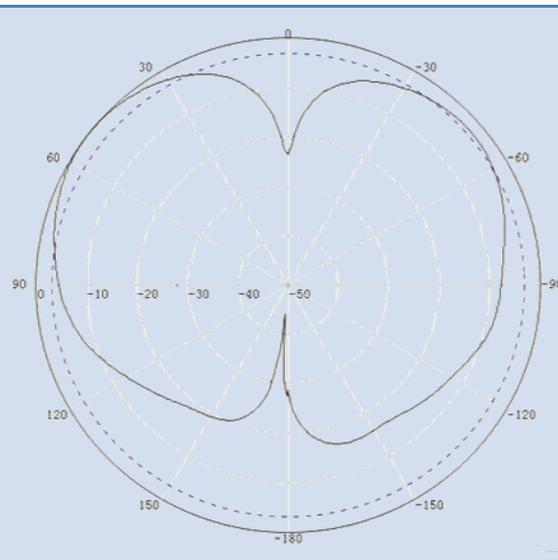
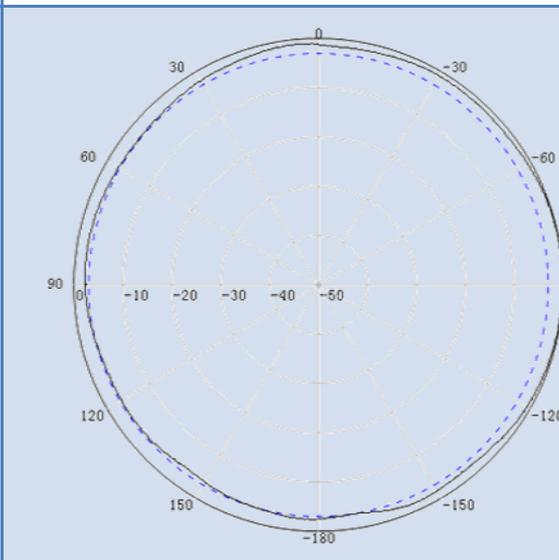
Antennas have two integrated N Female connectors at base designed for connecting any desired length of cable.

This omnidirectional antenna provides $>1.2k\Omega$ resistance to ensure UE hardware can detect the external antenna (requirement for Huawei CPE).

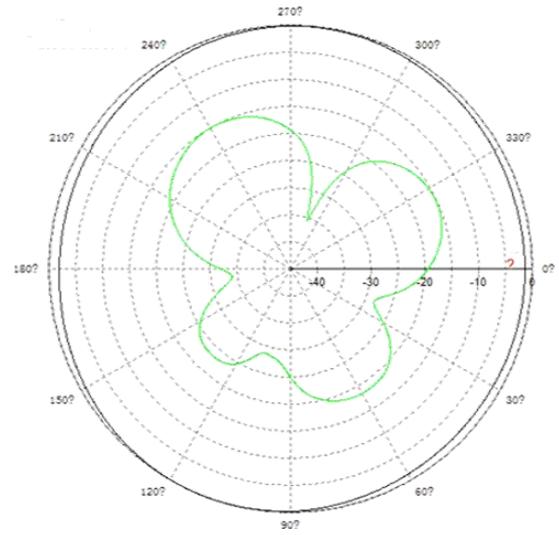
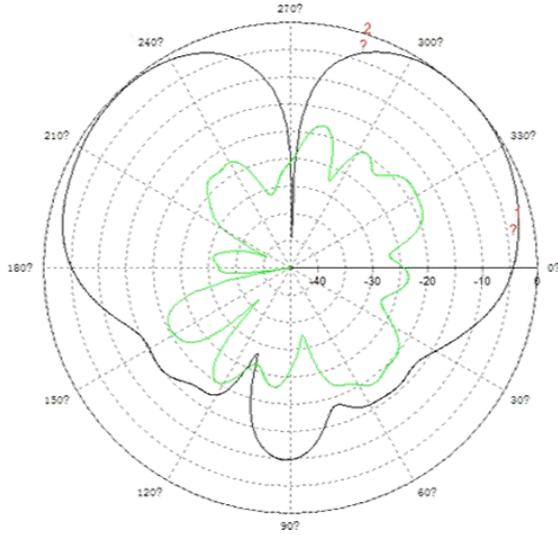
This small unit has been designed for both indoor and outdoor operation, the high grade PVC radome means it can be permanently installed in outdoor locations using the supplied pole mount bracket as an unobtrusive and aesthetically pleasing solution. Mounting brackets and desktop stands are customisable upon consultation.



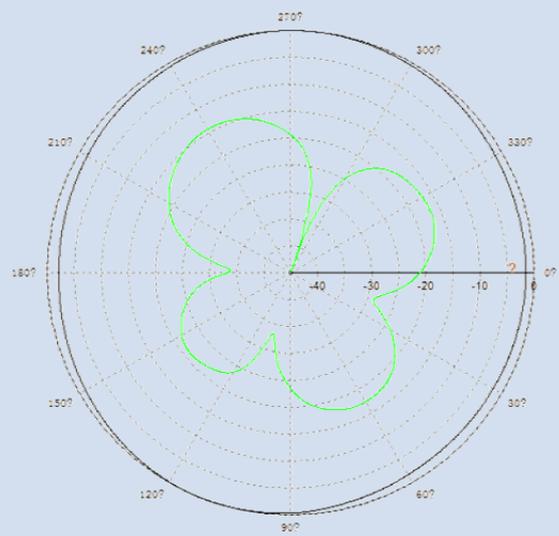
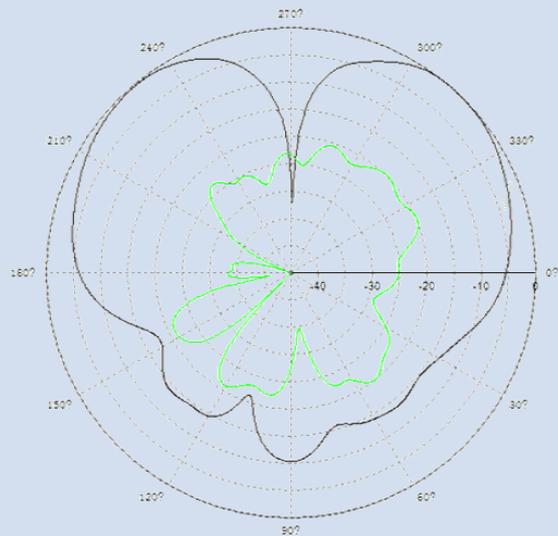
See below for electrical & mechanical specification data.

Electrical Specifications		
Frequency Range:	698-960MHz (PORT 1) / 1710-2700MHz (PORTS 1 & 2)	
Input Impedance:	50Ω	
VSWR:	<2.0:1	
Polarisation:	V & H	
Vertical Beamwidth:	Band Dependent	
Horizontal Beamwidth:	360°	
Front to Back Ratio:	Not Applicable	
Cross Pol Isolation:	>30dB	
Resistance:	>1.2kΩ	
Radiation:	Omnidirectional	
Maximum Power:	20Watts	
Radiation Patterns	Vertical	Horizontal
698MHz:		

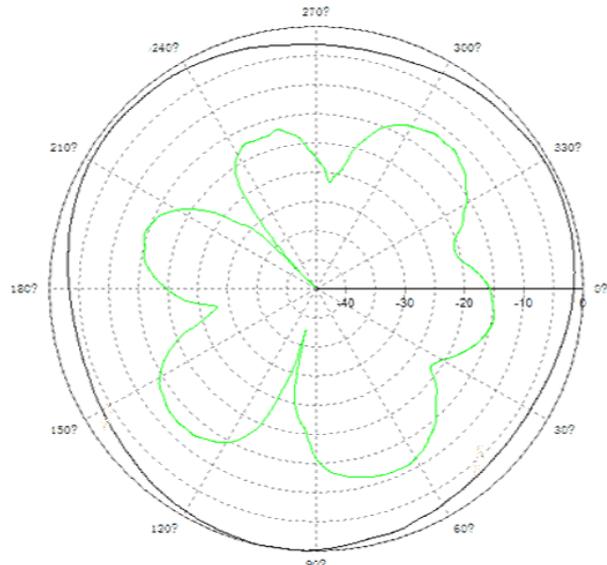
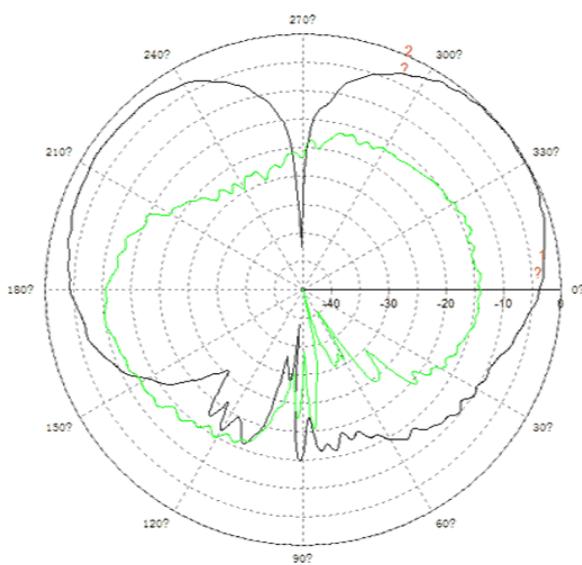
960MHz:



1710MHz:



2690MHz:



Test Item	Technical Requirement	Unit	Frequency	Result	
Polarisation				V	H
VSWR	≤2.0	/	698MHz	1.87	-
			960MHz	1.44	-
			1710MHz	1.30	1.71
			2690MHz	1.43	1.55
Gain	4	dBi	698MHz	-0.7	-
			745MHz	-0.5	-
			790MHz	0.3	-
			824MHz	0.6	-
			880MHz	1.89	-
			920MHz	2.15	-
			960MHz	2.2	-
			1700MHz	3.29	2.30
			1800MHz	3.90	2.33
			1900MHz	4.01	3.07
			2000MHz	4.02	3.50
			2100MHz	4.31	3.61
			2200MHz	5.00	3.06
			2300MHz	4.02	3.07
			2400MHz	3.90	4.24
2500MHz	4.52	4.19			
2600MHz	4.40	4.28			
2700MHz	5.00	4.65			
Vertical Beamwidth	/	°			

Mechanical/Environmental Specifications	
Construction:	PVC Radome, Aluminium Bracket, Stainless Fixings
Cable:	None
Connector:	2x N Female Bulkhead
Wind Rating:	210km/hr
Temperature:	-40°C +60°C
Weight:	800g
Dimensions:	250 x 125 x 125mm (L x W x D) – Including Bracket
Mounting:	25-114mm Ø pole

CAD Drawing	
Elevation View	Plan View
