

# Tongyu 4G-5G Dual Beam Dual Polarisation Sector Antenna, 1710 to 2690 MHz, Integrated RCU

SKU: ANT-TO-00002  
MPN: T0004L3R011

## Description

Tongyu's T0004L3R011 is a dual beam dual polarised base station sector antenna, providing 2x2 MIMO in dual-slant polarisation across two beams centred at  $\pm 31^\circ$  from boresight. The antenna covers all 4G and 5G cellular bands from 1710 to 2690 MHz, with no band gaps.

30° twin-beam antennas are most commonly used to divide a traditional 65° sector footprint into two sectors that can be fed by two radio units, to achieve a near-doubling of capacity.

The antenna has an integrated and replaceable Remote Control Unit for remote electrical tilt adjustment between 2 and 12°. Performance data are provided as representative values across all tilts and sub-arrays.



## Tongyu

Established in 1996, Tongyu Communication Inc. (Stock Code:002792) is located in State-level Torch Hi-Tech Industrial Development Zone, Zhongshan City, Guangdong Province. Focusing on R&D, production, sales and service of mobile communication antenna, communication in motion antenna, RF components, optical module and other products, Tongyu Communication is dedicated to provide domestic and ...

# RF Specification

Start Frequency:	1710 MHz	Polarisation:	Dual Slant $\pm 45^\circ$
Stop Frequency:	2690 MHz	Input Impedance:	50
Max. Input Power:	200 W		

## RF Connectors

Ports	RF Interface	Body Shape
8	4.3-10 Female	Straight

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth	Elevation	F/B Ratio	Inter-Port Iso.	Cross-Polar Iso.	XPD
1710 MHz	1990 MHz	18.5 dBi	< 1.5:1	39°	7.5°	> 25 dB	> 30 dB	> 25 dB	> 18 dB
1920 MHz	2200 MHz	19 dBi	< 1.5:1	38°	6.6°	> 25 dB	> 30 dB	> 25 dB	> 18 dB
2200 MHz	2490 MHz	19.4 dBi	< 1.5:1	36°	5.7°	> 26 dB	> 30 dB	> 25 dB	> 18 dB
2490 MHz	2690 MHz	19.8 dBi	< 1.5:1	32°	5.3°	> 26 dB	> 30 dB	> 25 dB	> 18 dB

# Physical Specification

Subtype:	Panel / Sector	Dimensions:	2580 x 400 x 150
Input Ports:	8	Materials:	Fibreglass (GRP)
MIMO:	2x2 MIMO	Weight:	41.3 kg
Min. Operating Temperature:	-50 °C	Compliance/Certifications:	ISO 9001 Quality Management
Max. Operating Temperature:	65 °C		
PIM, 3rd Order:	-153 dBc		

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