

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		

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

