

# Powertec 4G-5G & WiFi 3-in-1 Combination, Antenna, 698 to 7125 MHz

SKU: ANT-PT-00026

MPN: 3LST-6971-2

## Description

3LST-6971-2 is a 3-in-1 combination antenna that provides 4G-5G cellular connectivity in 2x2 MIMO using two cables, and supports WiFi-6E in SISO on the third cable. The antenna has an IP65 ingress protection rating and an M20 stud mounting.

Test data show modest performance on all three elements, making it suitable for cost-effective large-scale IoT rollouts.

The antenna is supplied standard with three 3 metre L-100 coaxial cables with SMA Male connectors.



### Powertec

Powertec is a wireless technology manufacturer and systems integrator based in Australia. Operating since 1995, Powertec has grown to become the leading wireless technology distributor in its region, and a leading Infratech systems developer. Supporting over 1500 partners the company provides procurement, design, project management, and support services across Australia, New Zealand, Pacific ...

# RF Specification

## Cable 1: 4G-5G

Start Frequency:	698 MHz	Polarisation:	Linear
Stop Frequency:	2700 MHz	Input Impedance:	50
Max. Input Power:	5 W		

### RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-100	3000 mm

### Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Efficiency
698 MHz	960 MHz	2.93 dBi	> 10 dB	< 2:1	360°	40%
1710 MHz	2170 MHz	2.86 dBi	> 10 dB	< 2:1	360°	37%
2500 MHz	2700 MHz	4.99 dBi	> 10 dB	< 2:1	360°	41%

## Cable 2: 4G-5G

Start Frequency:	698 MHz	Polarisation:	Linear
Stop Frequency:	2700 MHz	Input Impedance:	50
Max. Input Power:	5 W		

### RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-100	3000 mm

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Efficiency
698 MHz	960 MHz	3.19 dBi	> 10 dB	< 2:1	360°	44%
1710 MHz	2170 MHz	3.89 dBi	> 10 dB	< 2:1	360°	40%
2500 MHz	2700 MHz	5.35 dBi	> 10 dB	< 2:1	360°	45%

## Cable 3: WiFi

Start Frequency:	2400 MHz	Polarisation:	Linear
Stop Frequency:	7125 MHz	Input Impedance:	50
Max. Input Power:	5 W		

## RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	L-100	3000 mm

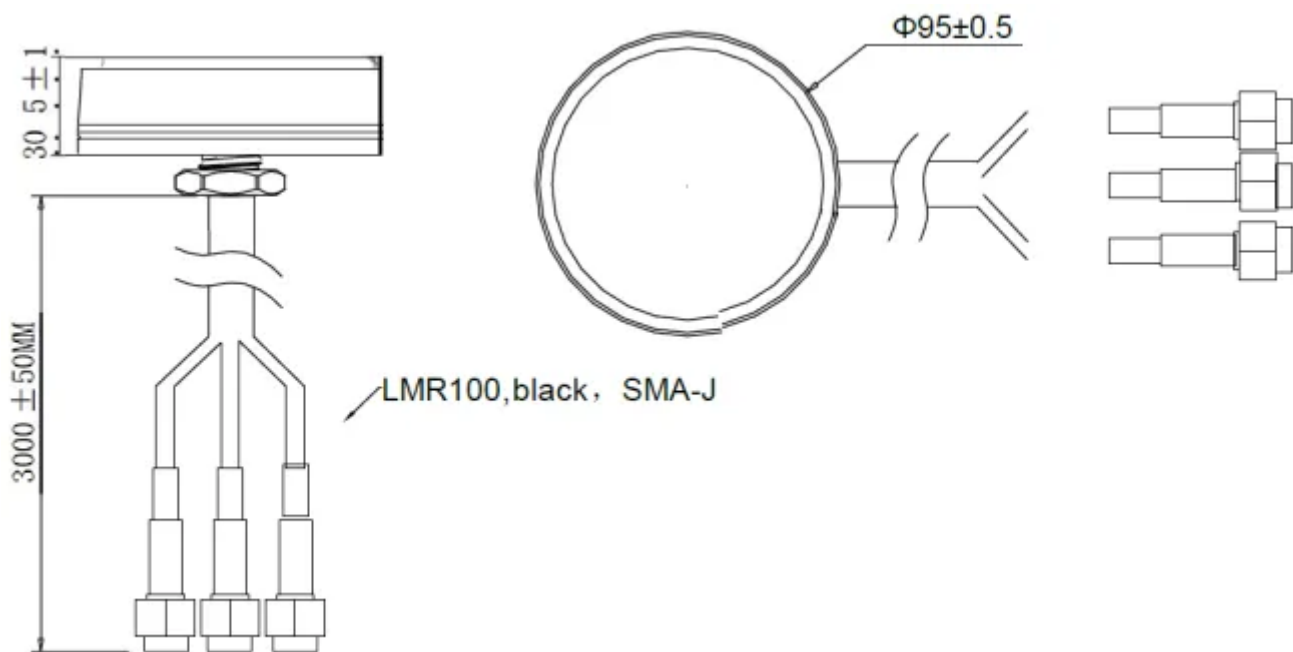
## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Return Loss	VSWR	Azimuth	Efficiency
2400 MHz	2500 MHz	0.46 dBi	> 10 dB	< 2:1	360°	30%
5150 MHz	5850 MHz	1.28 dBi	> 10 dB	< 2:1	360°	33%
5925 MHz	7125 MHz	2.31 dBi	> 10 dB	< 2:1	360°	36%

# Physical Specification

Subtype:	Fin / Stud / Combo	Dimensions:	30.5 x 95 (H x Dia)
Input Ports:	3	Ingress Protection:	IP65
MIMO:	2x2 MIMO	Mounting:	Stud / Bulkhead / Panel
Min. Operating Temperature:	-20 °C	Compliance/Certifications:	ISO 9001 Quality Management
Max. Operating Temperature:	70 °C	Mechanical Compliance:	IEC 60068-2-11: Salt Mist

## Drawing



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