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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
Stop Frequency

2700 MHz
Max. Input Power
5 W
Polarisation
Linear
Input Impedance
50 Ω
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
Stop Frequency
2700 MHz
Max. Input Power
5 W
Polarisation
Linear
Input Impedance
50 Ω
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
Stop Frequency
7125 MHz
Max. Input Power
5 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

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

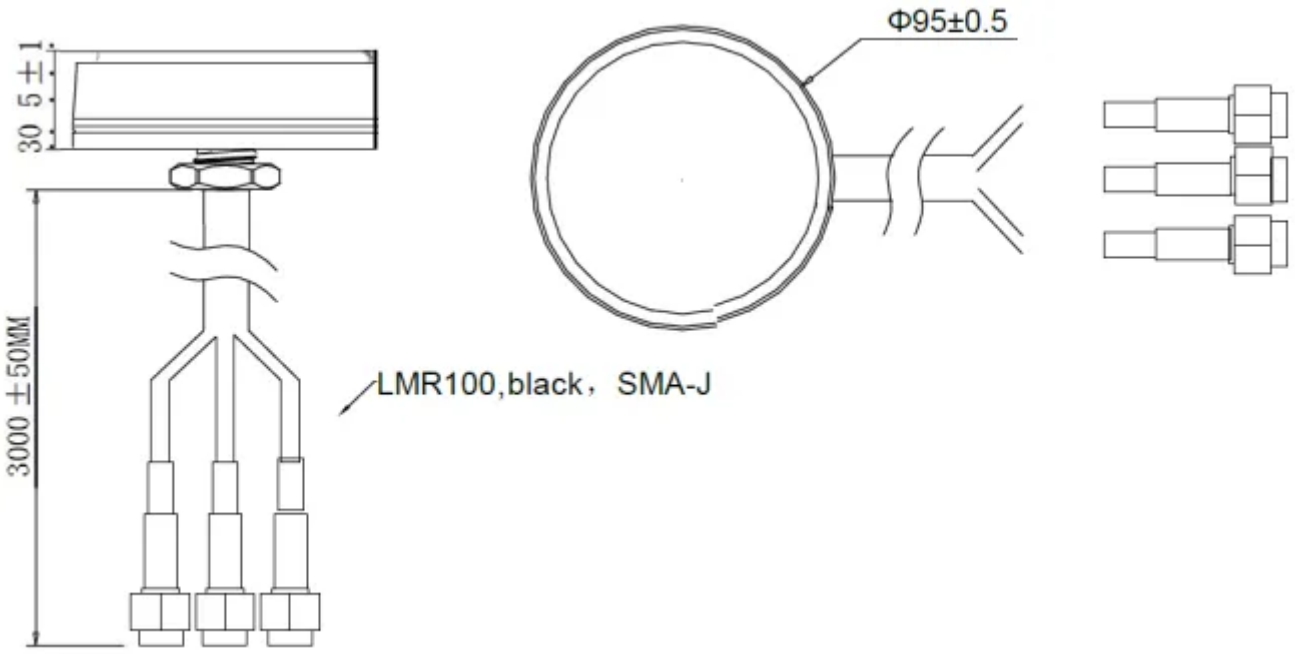
Frequency Test Data

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
Input Ports
3
MIMO
2x2 MIMO
Min. Operating Temperature
-20 °C
Max. Operating Temperature
70 °C
Dimensions
30.5 x 95 (H x Dia)
Ingress Protection
IP65
Mounting
Stud / Bulkhead / Panel
Compliance/Certifications
ISO 9001 Quality Management

Mechanical Compliance
IEC 60068-2-11: Salt Mist
Drawing



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