

Page



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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](#)

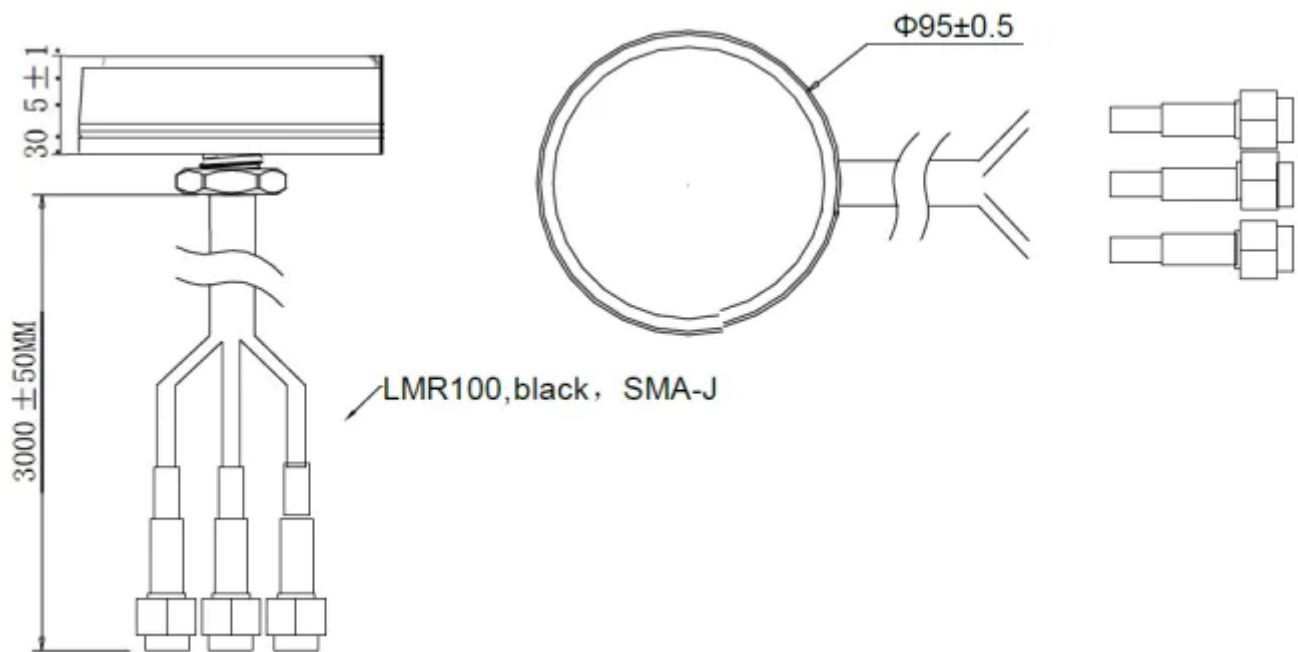
Mounting

[Stud / Bulkhead / Panel](#)

Compliance/Certifications

ISO 9001 Quality Management

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



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