



Description: 3x3 MiMo dual band WiFi/BT FPC antenna

Series: Gemini

PART NUMBER: W6103B0100

Features:





All dimensions are in mm / inches

Issue: 1616

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Applications:

- 802.11a/b/g/n/ac
- Challenging RF environments

WiFi Bluetooth, BLE, ZigBee

One antenna – 3 x dual band

Flexible to fit tight spaces

lengths and connectors

High Efficiency – over 70%

Standard and customized cable

2400-2500MHz, 4900-5900MHz

- IoT including security, video, graphics, bluetooth
- IoT SmartGrid, Meters, Sensor Networks
- Tansportation
- Bluetooth connections
- 2x2, 3x3 MiMo WiFi devices





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ELECTRICAL SPECIFICATIONS

Frequency	2.4-2.5/4.9-5.9 GHz
Nominal Impedance	50 Ω
VSWR	< 2
Max Gain frequency	4.5 +/-1 dBi
Avg Gain frequency	-2 +/-0.5dBi
Efficiency	70%
Radiation Pattern	Omni
Polarization	Linear
Power withstanding	3 W
Connector type	IPEX 20278-112R-13 or equivalent
Cable type	Low loss Φ1.13mm Coaxial Cable
Cable length	100mm

* All RF parameters measured on 2mm thick PC plate

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MECHANICAL SPECIFICATIONS

Color	Black
Weight	1.8 g
Thickness of FPC with adhesive	0.15mm
Overall Length	3.15 INCHES
Fixing system	Adhesive Tape, 3M6677 PC

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

-40~85° C

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MECHANICAL DRAWING



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CHARTS

Return Loss



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CHARTS

Port to port isolation



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CHARTS

Peak Gain(dBi)



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CHARTS



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CHARTS

Efficiency(%)



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CHARTS Typical free space radiation pattern—port1: 2.4-2.5GHz Vertical plane, Phi0 Vertical plane, Phi90 10 30 30 -30 -60 -10 -15 -20 -2400 -2400 -2440 90 -90 -2440 90 -90 -2480 -2500 120 -120 120 -120 150 -150 -150 150 horizontal plane 180 180 330 300 -10 60 -15 -20 2400 270 2440 90 -2500 240 120 210 150 180

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RoHS



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CHARTS Typical free space radiation pattern—port3: 4.9-5.9GHz Vertical plane, Phi0 Vertical plane, Phi90 30 30 4900 4900 -5500 90 -90 -5500 90 -5900 -5900 120 -120 120 -120 150 -150 150 -150 180 180 horizontal plane 330 300 -15 4900 270 -5500 90 5900 240 120 210 150

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PACKAGING

5 antennas packed in one plastic bag

100 bags(TBD) of antennas packed in a cardboard box

1 label on each box with qty, part number, date code.

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