



# RF-5100

## Upper C-Band RF Module

### SPECIFICATIONS

#### Frequency Range

5100 - 5945 MHz

#### RF Modulation

OFDM (64QAM, 16QAM, QPSK)

#### Antenna Chains

3 Independent RF Chains

#### TX/RX Operating Modes

All MIMO modes from SISO to 3x3

#### Channel Bandwidth

5, 10, and 20 MHz

Software Configurable

#### Peak TCP Throughput

150 Mbps at 20 MHz Channel

#### MIMO Techniques

Maximal Ratio Combining

Space-Time Block Coding

Spatial Multiplexing

#### Max. Aggregate Transmit Power

4W (1.3W per RF Chain)

#### Antenna Ports

(3) SMP (50 Ohms)

#### TX Power Control

31 to 16.5 dBm, 0.5 dB per step

#### Power Control Accuracy

+/- 2 dB

#### Frequency Accuracy

+/- 4 ppm, max.

#### Minimum Receiver Sensitivity

-94 dBm at 5 MHz bandwidth, QPSK

#### Max. RF Input

-10 dBm

#### Max. RF Input without Damage

+10 dBm

#### Max. Peak Power Consumption, TX

50W

#### Power Consumption, RX

2.5W

#### Operating Temperature

-40°C to +85°C

#### ESD Protection

+/- 8KV Contact discharge, per IEC 6100-4-2

#### Dimensions

3.8 x 2.6 x 0.5 in.

9.7 x 6.6 x 1.3 cm

#### Weight

4.8 oz.

136 g

#### Commercial Compliance

 [FCC Certification](#)  
(ID: 2AG3J-RF5100)

 [Australia Certification](#)



 [United Kingdom Certification](#)

 [Japan Type Certification](#)  
R 209-J00337



 [Canada IC Certification](#)  
(ID: 2AG3JRF-2150)

### NO NDA REQUIRED

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