



RF-5100

Upper C-Band RF Module



SPECIFICATIONS

Frequency Range

5100 - 5945 MHz

RF Modulation

OFDM (64QAM, 16QAM, QPSK, BPSK)

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

-95 dBm at 5 MHz bandwidth, BPSK

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

FCC Certification

FCC Part 15, Subpart B

FCC Part 15, Subpart E, 15.407, for UNII band I and III

Japan Type Certification

Article 2, Paragraph 1, Item 72

Category RB (Unmanned Mobile Image Transmission System)

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



NO NDA REQUIRED

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