



RF-2100

S-Band Interchangeable Frequency Module



SPECIFICATIONS

Frequency Range

2200 - 2507 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

6W (2W per RF Chain)

Antenna Ports

(3) SMP (50 Ohms)

ISM Band Certifications

FCC Part 15 Subpart C, 15.247

RSS-247, Issue 1, May 2015

RSS-GEN, Issue 4, November 2014

ANSI C63.10: 2013

ANSI C63.4: 2014

TX Power Control

33 to 16.5 dBm, 0.5 dB per step

Power Control Accuracy

+/- 2 dB

Frequency Accuracy

+/- 4 ppm, max.

Spurious Output, Harmonic

-53 dBc

Spurious Output, Non-Harmonic

-65 dBc

Minimum Receiver Sensitivity

-98 dBm at 5 MHz bandwidth, BPSK

Max. RF Input

-20 dBm

Max. RF Input without Damage

+10 dBm

Max. Peak Power Consumption, TX

40W (3 Chains @ 6W)

Power Consumption, RX

1.9W (3 Chains)

Power Consumption, Standby

0.15W

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

4.6 oz.

130 g

RELEASABLE

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