



# RF-2150

## High Power S-Band RF Module



### SPECIFICATIONS

**Frequency Range**

2200 - 2507 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**

10W (3.3W per RF Chain)

**Antenna Ports**

(3) SMP (50 Ohms)

**TX Power Control**

35 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**

-20 dBm

**Max. RF Input without Damage**

+10 dBm

**Max. Peak Power Consumption, TX**

40W (3 Chains @ 10W)

**Power Consumption, RX**

1.8W (3 Chains)

**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**

4.2 oz.

119 g

**NO NDA REQUIRED**

© 2006 - 2023 Persistent Systems, LLC. All rights reserved. The Wave Relay® logo, the Persistent Systems, LLC logo and other designated trademarks and trade names are the property of Persistent Systems, LLC or their respective owners. Product specifications are subject to change without notice. This material is provided for informational purposes only; Persistent Systems, LLC assumes no liability related to its use and expressly disclaims any implied warranties of merchantability or fitness for any particular purpose.

The export and/or the release of certain products, technology and software to non-US persons might be subject to export restrictions. Please refer to the US export laws & regulations for details.