

RF FRONT END RECEIVER MODULE

Overview

Cyient's RF front end is a receiver card working in the region of $75\text{MHz} \pm 0.005\%$ (3.75KHz). Its functionality is to receive low power signals in the range of -65 dBm to -13 dBm and provide amplified and filtered input for further processing.

Key Features

- Far field and near Field indication
- Receiver chain health status

Technical Specifications

Receiver

- Sensitivity range -65dBm to -13dBm
- Receiver gain is 25dB
- Gain flatness is ± 2 dB
- Noise figure is less than 6dB
- Dynamic Range 50dB
- Harmonics less than -40dBc
- Superiors less than -40dBc
- Input and output return loss -10dB (Min)

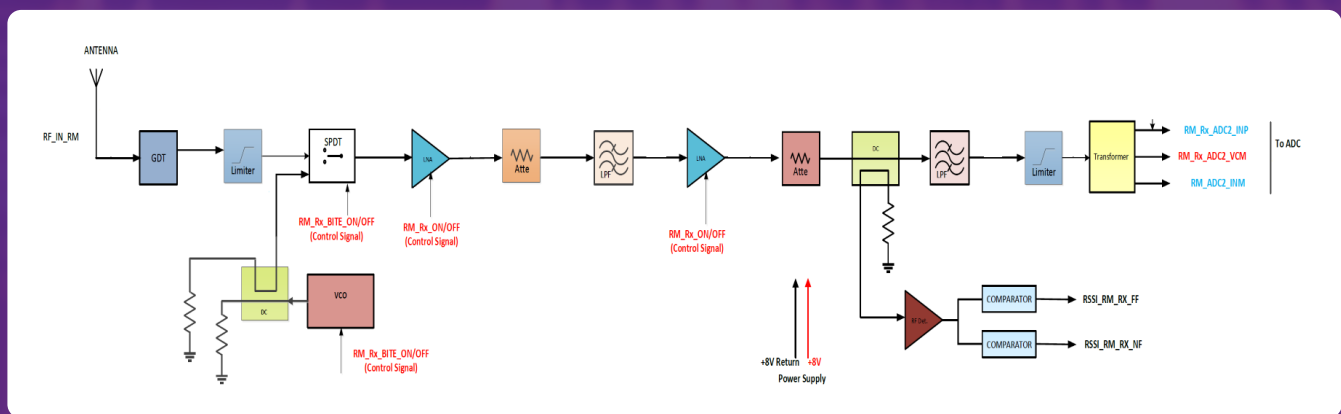
Interfaces

- Digital interface, RF input and power supply for 40 Pin SMD connector
- RF Input SMB connector

Size

(LXHXW): 137.14 X 68.07 X 1.6

Block Diagram



Benefits

Overall "Low cost of ownership" to the customer due to

- Compact Design
- Receiver and Transmitter in Single PCB
- Easy to Detect the failures

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