Standardizing the Receiver Carrier Board (RCB) Form Factor

This document describes the specs for the receiver carrier board (RCB) form factor.

Mechanical Specification

8 7

6 5

4 3

2 1

3.1mm

26mm

31.75mm

67.25mm

60.5mm

J1

16.50mm

7mm

8mm

4mm

Bottom View

67.25mm

60.5mm

10.75mm

Side View

Here is the pinout for J1

|  |  |  |  |
| --- | --- | --- | --- |
| Pin # | Name | Type | Description |
| 1 | VCC\_ANT | Power | Antenna Power Supply, 3v3 to 5v with Max 100mA |
| 2 | VCC | Power | Receiver Power, 3v3 with Max 200mA |
| 3 | TXD | Output | UART TDX, LVCMOS |
| 4 | RST | Input | Hardware Reset |
| 5 | RXD | Input | UART RXD, LVCMOS |
| 6 | TP1 | Output | Time Pulse (1-PPS recommended), LVCMOS |
| 7 | TP2 | Output/Input | Time Pulse (output or input or unused), LVCMOS |
| 8 | GND | Power | Power Return, Ground |