RCB-F9T timing boards

Easy access to u-blox ZED-F9T multi-band timing technology

**Highlights**
- Timing boards with ZED-F9T
- Two frequency band variants
- Industry-standard form factor
- SMB antenna connector
- 8-pin connector for easy connectivity

**Product description**
The RCB-F9T boards allow for easy evaluation and quick prototyping with the ZED-F9T high accuracy timing modules.

RCB-F9T is available in two different band variants, RCB-F9T-0 supporting L1/L2/E5b frequency bands and RCB-F9T-1 supporting L1/L5/E5a frequency bands.

The ZED-F9T module provides multi-band GNSS timing and comes with nanosecond level timing accuracy in both standalone and differential timing modes.

The RCB-F9T timing board contains an SMB antenna connector and 5V power supply circuitry for active multi-band GNSS antennas. 8-pin, 2.0 mm pitch pin-header provides powering of the board, UART communications and two independently configurable time pulse signals.

The evaluation software, u-center, provides a powerful platform for evaluation of u-blox GNSS receivers. With u-center, the receiver can be easily configured, and data can be logged as well as visualized in real time.

**Interfaces and electrical data**

<table>
<thead>
<tr>
<th>Pin order</th>
<th>SMB connector for active multi-band GNSS antenna</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin header</td>
<td>Antenna power supply 5.0V max 100mA</td>
</tr>
<tr>
<td></td>
<td>2 Operating voltage, 3.3V</td>
</tr>
<tr>
<td></td>
<td>3 UART TXD, LVCMOS</td>
</tr>
<tr>
<td></td>
<td>4 Hardware reset (can be left floating)</td>
</tr>
<tr>
<td></td>
<td>5 UART RXD, LVCMOS</td>
</tr>
<tr>
<td></td>
<td>6 Time Pulse 1, LVCMOS</td>
</tr>
<tr>
<td></td>
<td>7 Time Pulse 2, LVCMOS</td>
</tr>
<tr>
<td></td>
<td>8 Ground</td>
</tr>
</tbody>
</table>

**Protocols**
NMEA, UBX, RTCM

**Product variants**

| RCB-F9T-0       | u-blox F9 high accuracy timing board with ZED-F9T-00B module supporting L1/L2/E5b bands |
| RCB-F9T-1       | u-blox F9 high accuracy timing board with ZED-F9T-10B module supporting L1/L5/E5a bands |

**Related products**

- **ZED-F9T**
  - u-blox F9 high accuracy timing modules
- **ANN-MB**
  - Multi-band, high precision GNSS antenna supporting L1/L2/E5b bands
- **ANN-MB1**
  - Multi-band, high precision GNSS antenna supporting L1/L5/E5a bands

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**Further information**

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For more product details and ordering information, see the product data sheet.