DATASHEET

WT11i
Bluetooth® Module

Date: May 2014
WT11i Bluetooth® Module

DESCRIPTION

WT11i is a fully integrated Bluetooth 2.1 + EDR, class 1 module combining antenna, Bluetooth radio and an on-board iWRAP Bluetooth stack. Bluegiga WT11i provides an ideal solution for developers that want to quickly integrate long range and high performance Bluetooth wireless technology to their design without investing several months into Bluetooth radio and stack development. WT11i provides a 100dB link budget ensuring long range and robust Bluetooth connectivity. WT11i uses Bluegiga’s iWRAP Bluetooth stack, which is an embedded Bluetooth stack implementing 13 different Bluetooth profiles and Apple iAP connectivity. By using WT11i combined with iWRAP Bluetooth stack and Bluegiga’s excellent technical support designers ensure quick time to market, low development costs and risk.

APPLICATIONS:

- Industrial and M2M
- Point-of-Sale devices
- Computer Accessories

KEY FEATURES:

Radio features:
- Bluetooth v.2.1 + EDR
- Bluetooth class 1 radio
- Transmit power: +17 dBm
- Receiver sensitivity: -86 dBm
- Range: 350 meters line-of-sight
- Integrated chip antenna or U.FL connector

Hardware features:
- UART and USB host interfaces
- 802.11 co-existence interface
- 6 software programmable IO pins
- Operating voltage: 2.7V to 3.6V
- Temperature range: -40C to +85C
- Dimensions: 35.75 x 14.50 x 2.6 mm

Qualifications:
- Bluetooth
- CE
- FCC
- IC
- Japan

PHYSICAL OUTLOOK
# 1 ORDERING INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>U.FL Connector</th>
<th>Internal chip antenna</th>
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</thead>
<tbody>
<tr>
<td>iWRAP 5.0 firmware</td>
<td>WT11i-E-AI5</td>
<td>WT11i-A-AI5</td>
</tr>
<tr>
<td>iWRAP 4.0 firmware</td>
<td>WT11i-E-AI4</td>
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<td>iWRAP 3.0 firmware</td>
<td>WT11i-E-AI3</td>
<td>WT11i-A-AI3</td>
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<td>HCI firmware, BT2.1 + EDR</td>
<td>WT11i-E-HCI21</td>
<td>WT11i-A-HCI21</td>
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<tr>
<td>Custom firmware</td>
<td>WT11i-E-C (*</td>
<td>WT11i-A-C (*)</td>
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</tbody>
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*Custom firmware means any standard firmware with custom parameters (like UART baud rate), custom firmware developer by customer or custom firmware developed by Bluegiga for the customer.

To order custom firmware you must have a properly filled Custom Firmware Order Form and unique ordering code issued by Bluegiga. Contact sales@bluegiga.com for more information.
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