PAN1326C Bluetooth® Classic and Bluetooth 4.2 Low Energy RF Module
Host Controlled Interface (HCI) Bluetooth RF Module Brings TI’s CC2564C To An Easy-To-Use Module Format!

Panasonic’s New PAN1326C Series Host Controlled Interface (HCI) Bluetooth RF Module brings Texas Instrument’s seventh generation Bluetooth core integrated circuit, the CC2564C, to an easy-to-use Module format. The New PAN1326C is Bluetooth 4.2 compliant and offers best-in-class RF performance. Panasonic’s tiny footprint technology has produced a Module of only 85.5mm². The PAN1326C is designed to accommodate PCBs pad pitch of 1.3mm and as little as two layers for easy implementation and manufacturing. This Module has been designed to be 100% pin compatible with previous generations of Texas Instruments based Bluetooth HCI modules.

General Features and Benefits:
- Bluetooth 4.2 Compliant Up To The HCI Layer
- Best-In-Class Bluetooth RF Performance (Tx, Rx Sensitivity, Blocking)
- Fully Qualified Bluetooth
- FCC And IC Listed, CE Compliant
- Dimensions: 9.0 Mm x 9.5 Mm x 1.8 Mm (Width x Length x Height)
- Operating Temperature Range: -45°C To +85°C
- Supply Voltage Range: 1.7 - 4.8 V
- Based Upon TI’s CC2564C
- RoHS and REACH Compliant

Bluetooth Features:
- Basic Rate Scatternet: Up To Three Piconets Simultaneously, One As Master And Two As Slaves
- Provide Assisted Mode For HFP 1.6 Wideband Speech (WBS) Profile Or A2DP Profile
- BLE Concurrent Peripheral And Central, Support Up To 10 Devices
- Integration Of Bluetooth 4.2 Low Energy Secure Connections

Applications:
- Heart Rate Monitors
- Blood Glucose Meters
- Industrial Sensors
- Entertainment Devices
- Mobile Accessories
- Toys

Part Number Information:
### Block Diagram:

![Diagram of a Bluetooth 4.2 Module](image)

### Technical Characteristics:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Condition/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiver Sensitivity</td>
<td>-93 dbm</td>
<td></td>
</tr>
<tr>
<td>Output Power</td>
<td>10 dbm</td>
<td>Maximum Setting</td>
</tr>
<tr>
<td>Power Supply</td>
<td>1.7V – 4.8V</td>
<td>Single Operation Voltage</td>
</tr>
<tr>
<td>Transmit Mode</td>
<td>40 mA</td>
<td>ACL, DH1</td>
</tr>
<tr>
<td>Receive Mode</td>
<td>20 mA</td>
<td>ACL, DH1</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-45°C to +85°C</td>
<td>Industrial Range</td>
</tr>
</tbody>
</table>