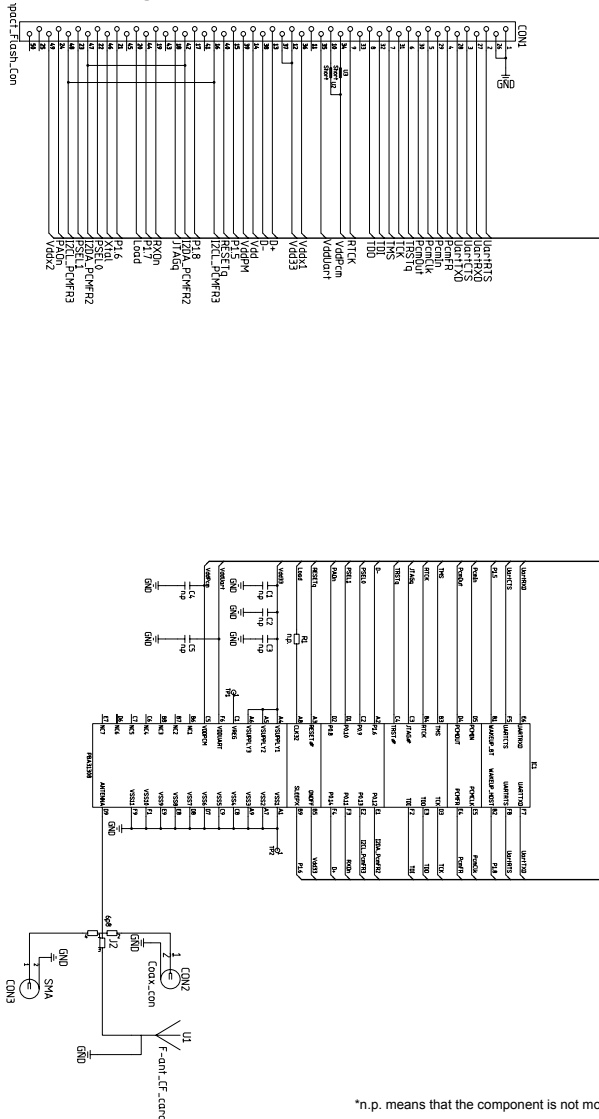


9 Important Application Information

9.1 Reference design

Figure 9-1 Reference design schematics



*n.p. means that the component is not mounted (i.e. not placed)

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Important Application Information

PBA 31308 is intended to be installed inside an end user equipment. PBA 31308 is Bluetooth, R&TTA and FCC qualified with the reference design described in **Figure 9-1** together with the following antenna:

Make	Model	Peak antenna gain	Impedance
gigaAnt	Titanis	4 - 4.4 dBi	50 ohm

Manufacturers of mobile, fixed or portable devices incorporating this device are advised to clarify any regulatory questions and to have their complete product tested and approved for compliance (FCC or other when applicable).

There are no parts in PBA 31308 that can be modified by the user except modifications of the device BD data and loading of SW patches. Any changes or modifications made to this device that are not expressly approved by Infineon, may void the user's authority to operate the equipment.

9.2 FCC Class B digital devices regulatory notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by 1 or more of the following measures:

- Reorient or relocate the antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or television technician for help

9.3 FCC Wireless notice

This product emits radio frequency energy, but the radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact with the antenna during normal operation is minimized.

To meet the FCC's RF exposure rules and regulations:

CONFIDENTIAL**Important Application Information**

- The system antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- The system antenna(s) used for this module must not exceed 4 dBi.
- Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Manufacturers of mobile, fixed or portable devices incorporating this module are advised to clarify any regulatory questions and to have their complete product tested and approved for FCC compliance.

9.4 FCC Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

9.5 FCC Identifier

FCC ID: Q2331308

9.6 European R&TTE declaration of conformity

Hereby, Infineon Technology AG, declares that the Bluetooth module PBA 31308 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

As a result of the the conformity assessment procedure described in Annex III of the Directive 1999/5/EC, this equipment will be labelled as follows:



PBA31308 in the specified reference design can be used in the following countries:

Austria, Belgium, Cyprus, Czech republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, The Netherlands, United Kingdom, Switzerland, Norway, Iceland

Declaration of Conformity 1999/5/EC

We,

INFINEON TECHNOLOGIES AB
Isafjordsgatan 16
SE-164 81 Kista
Sweden

declare under our sole responsibility that the product:

Type of equipment: **Bluetooth 2.0+EDR module**
Brand name: **UNISTONE**
Model name: **PBA 313 08**

to which this declaration relates, is in compliance with all the applicable essential requirements, and other provisions of the European Council Directive:

1999/5/EC	Radio and Telecommunications Terminal Equipment Directive (R&TTE)
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The conformity assessment procedure used for this declaration is Annex IV of this Directive.

This product will bear CE Mark label as follows:



Product compliance has been demonstrated on the basis of:

<ul style="list-style-type: none"> - EN 60950-1: 2001 - EN 50371: 2002 	<p>For article 3.1 (a): Health and Safety of the User</p>
<ul style="list-style-type: none"> - EN 301 489-1 V1.6.1 - EN 301 489-17 V1.2.1 	<p>For article 3.1 (b): Electromagnetic Compatibility</p>
<ul style="list-style-type: none"> - EN 300 328 V1.6.1 	<p>For article 3.2 : Effective use of spectrum allocated</p>

The technical construction file is kept available at:

INFINEON TECHNOLOGIES AB
Isafjordsgatan 16
SE-164 81 Kista
Sweden

Authorised Signature by

Date: 2006-12-15



Erik Bjernulf
Program manager Bluetooth



9.7 Industry Canada Certification

PBA31308 comply with the regulatory requirements of Industry Canada (IC), license:

IC: 6850A-31308

Manufacturers of mobile, fixed or portable devices incorporating this module are advised to clarify any regulatory questions and ensure compliance for SAR and/or RF exposure limits. Users can obtain Canadian information on RF exposure and compliance from

www.ic.gc.ca

This device has been designed to operate with the antenna listed in section 8.1 above, having a maximum gain of 4.0 to 4.5 dBi. Antennas not included in this list or having a gain greater than 4.0 dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms. The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

9.8 Label design of the host product

It is recommended to include the following information on the host product label:

Contains transmitter Module FCC ID: Q2331308 / IC: 6850A-31308