

1 General Description

RDA5875Y is a highly integrated single-chip IC with radio transceiver and baseband processor, which is compliant with Bluetooth 2.1 + EDR specification and provides an optimal solution for data and voice application.

RDA5875Y provides UART which is specified as HCI interfaces by Bluetooth SIG standard, and also supports PCM audio interface.

RDA5875Y has been designed on highest level of integration to extremely reduce the number of external component. It uses CMOS process with a compact 4*4mm 32-pin QFN package

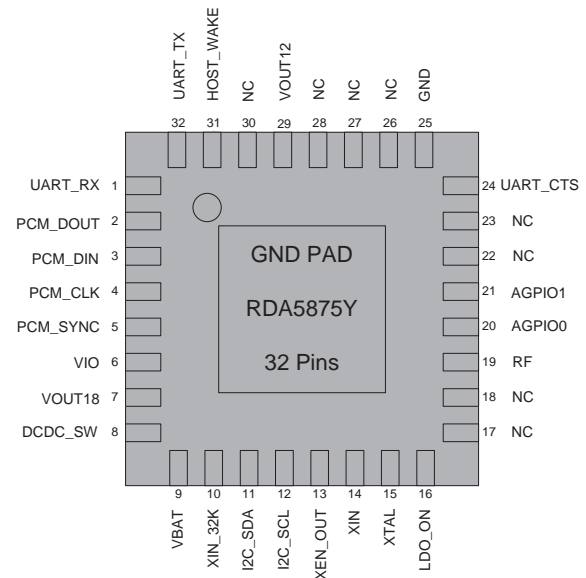


Figure1-1. RDA5875Y Top View

1.1 Bluetooth Features

- CMOS single-chip fully-integrated radio and baseband
- Compliant with Bluetooth 2.1 + EDR specification
- Bluetooth Piconet and Scatternet support
- Support AFH
- ARM7-based microprocessor with on-chip ROM and RAM
- Meet class1, 2 and class3 transmitting power requirement
- Provides +9dbm transmitting power
- NZIF receiver with -90dBm sensitivity
- Battery power supply directly with internal LDO
- Support DCXO with internal oscillator circuit
- Up to 4Mbps high speed UART HCI support
- Support 2-wire and 3-wire WIFI Co-existence

handshake signals

- Low power consumption
- Minimum external component

1.2 Applications

- Mobile handset
- MP3,MP4 and PMP
- GPS
- Other portable devices