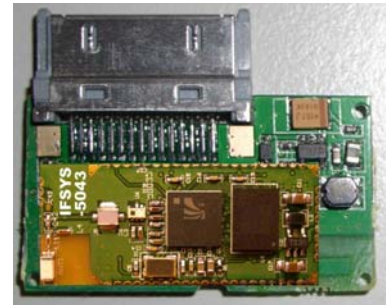


IFSYS-5048 iPod™ Bluetooth® Stereo Module

Product Brief

IFSYS-5048 is an iPod Accessory Module designed for OEMs interested in adding iPod™ Bluetooth Stereo Streaming features to their products. The IFSYS-5048 attaches to the iPod™ via the 30-pin connector and communicates with the iPod using the iPod Accessory Protocol Interface. Based on the Cambridge Silicon Radio (CSR™) BC03 Multimedia External Bluetooth chip, the IFSYS-5048 converts audio signals from the iPod™ into SBC encoded digital format before transmission. The IFSYS-5048 supports the Bluetooth A2DP and AVRCP profiles, dramatically reducing time to market.



Key features

- Fully embedded design, incorporating Bluetooth and iPod Accessory Protocol code.
- Bluetooth® V2.0 compliant; Qualified A2DP and AVRCP profiles; FCC certified
- Made-For-iPod™ ready (*Note: Customer must have an MFI license in order to be able to ship this product*).
- High quality audio streaming via built-in SBC (Sub-Band Codec)
- Volume control buttons
- No external power required; module is powered by iPod.
- Small form factor surface mounted package facilitates integration into space constrained embedded devices and equipment
- Schematics and design-in support, leveraging iFoundry's IFSYS-5043 qualified Bluetooth module.

Configuration



IFSYS-5048 iPod™ Bluetooth® Stereo Module

Product Brief

SPECIFICATIONS

General features

- Complete Bluetooth stereo streaming module reference design with iPod 30-pin interface, with built-in antenna and Embedded firmware
- Bluetooth Profile support:
 - A2DP (source)
 - AVRCP (controller and target)
 - SBC (Sub-Band Codec) support

Physical interfaces

- iPod 30-pin connector
- One Blue LED (status indication)
- Two buttons for Volume control of Bluetooth audio stream

Electrical specifications

- Power:
 - +3.3V d.c, 30mA
- Average current consumption:
 - ~28mA (max.) (Active Bluetooth streaming connection)
 - ~1mA (max.) (Low power, idle mode)
- Temperature: Operating: 0°C to +70°C, Storage: -20°C to +85°C
- Transmitter power: *Bluetooth* Class 2 device (4dBm max)
- Bluetooth* transmitting range: Up to 10m (free-air)

Applications

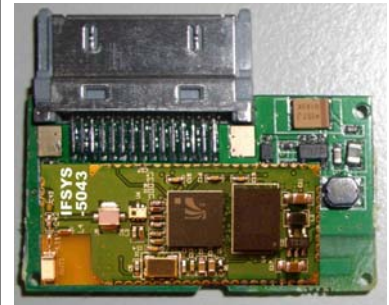
- Customised iPod audio applications

Certification/Compliance

- Bluetooth* V2.0 Specification compliant
- FCC certified
- Made-For-iPod (MFI) ready
- RoHS compliant

Dimensions

- Approx: 37.5mm (W) x 24mm (L) x 2.2mm (H) (*subject to change*)
- Weight: ~15g



Ordering Information

Order Number	Order Description
IFSYS-5048A:3101	Bulk packed units in box

iFoundry Systems Singapore
 Unit 03-20/22
 67 Ayer Rajah Crescent
 Singapore 139950

For more information:
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 Web: www.ifoundrysys.com