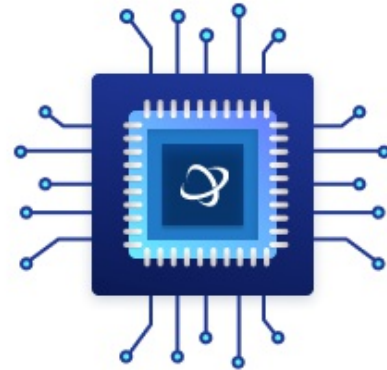


SmartBond™ Bluetooth 5.0 SoC with Audio Interface

Manufacturers	Renesas Technology Corp
Package/Case	
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for DA14585-00000VV2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

RFQ

General Description

SmartBond 5.0: smarter, more flexible, and even lower power

Connected devices are constantly evolving. New generations appear that are smarter, more full featured and have longer battery lifetimes. To enable this, SmartBond has evolved too. The DA14585 and DA14586 offer designers all the benefits of the industry-leading DA14580 but with even greater flexibility to create more advanced applications from the smallest footprints and power budgets.

As part of the Dialog SmartBond family, the DA14585&6 are the smallest, lowest power and most integrated Bluetooth® solutions available. This versatile SoC's are ideal for adding Bluetooth low energy to products like remote controls, proximity tags, beacons, connected medical devices and smart home nodes. It supports all Bluetooth developments up to and including Bluetooth 5 and Bluetooth low energy Mesh. Plus, with 96 kB of RAM, the DA14585&6 have double the memory for user applications of its predecessor to take full advantage of the standard's features. It also includes an integrated microphone interface for voice support at low additional cost. The wide supply voltage range (0.9 –3.6 V) covering a larger choice of energy sources and gives full design flexibility.

SmartBond™ DA14586 combines the benefits of the lowest power, smallest size and lowest system cost Bluetooth low energy System-on-Chip with an integrated flash. Furthermore the DA14586 is pin to pin compatible with the DA14585 thereby offering a unique cost down path from flash to OTP.

Like all SmartBond solutions, the DA14585&6 are easy to design-in and supports standalone as well as hosted applications. It is supported by a complete development environment and Dialog's SmartSnippets™ software that helps you optimize your software for power consumption.

Application: Beacon & Proximity | Remote Controls | HID | Smart Home | Connected Medical Devices | VR Controllers | Connected Sensors | Wireless Charging

Features

Complies to the Bluetooth 5 core specification

Integrated One-Time-Programmable (OTP) memory

Extended user RAM (96kB)

Low operating voltage (1.8V to 3.6V)

I²C and pulse density modulation (PDM) audio interfaces

Application

Remote controls

Proximity tags and trackers

Beacons

Connected medical devices

Smart home

Human Interface Devices

VR controllers

Connected sensors

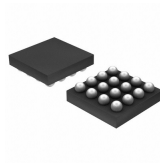
Wireless charging

Related Products



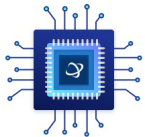
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Renesas Technology Corp
FBGA-176



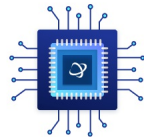
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Renesas Technology Corp
34-UFBGA, WLCSP



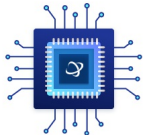
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Renesas Technology Corp



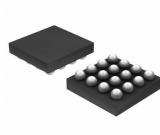
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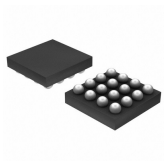
[DA14495](#)

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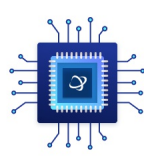
[DA7211-01UA6](#)

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[DA7211-01UA2](#)

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36-UFBGA, WLCSP



[DA7283-01FV2](#)

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