

Multi-Core Bluetooth® 5.2 SoC with System Power Management Unit

Manufacturers

[Renesas Technology Corp](#)

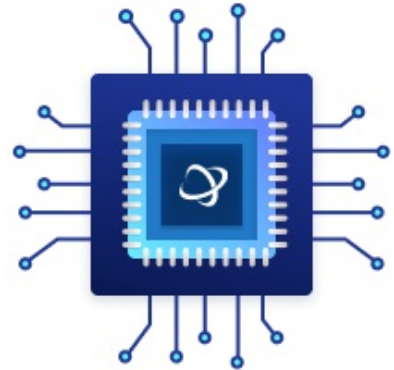
Package/Case

Product Type

Interface ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for DA14695-00000HQ2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Features

Compatible with Bluetooth 5.2, ETSI EN 300 328 and EN 300 440 Class 2 (Europe), FCC CFR47 Part 15 (US) and ARIB STD-T66 (Japan)

Flexible processing power

32kHz up to 96MHz 32-bit Arm Cortex-M33 with 16kBytes, 4-way associative cache and Floating-Point Unit (FPU)

A flexible and configurable Bluetooth Low Energy MAC engine implementing the controller stack up to HCI

A sensor node controller running uCode for sensors manipulation

A uCode-based motor controller for manipulating analog gear boxes for hands-on watches

Optimized power modes (Extended sleep, Deep sleep and Hibernation)

Memories

512kB Data SRAM with retention capabilities

4kB One-Time-Programmable (OTP) memory

16kB Cache SRAM with retention capabilities

128kB ROM (including boot ROM and PKI routines for Flash image authentication)

Power management

SIMO buck DC/DC converter (2.4V - 4.75V)

Four power supply pins for external devices, alive while DA1469x is asleep

Supports Li-polymer, Li-ion, coin cells, NiMH, and alkaline batteries

Hardware charger (up to 5.0V) with programmable curves and JEITA support

Programmable thresholds for brownout detection

Digital controlled oscillators

32MHz crystal (± 20 ppm max) and RC oscillator

32kHz crystal (± 50 ppm, ± 500 ppm max) and RCX oscillator

Application cryptographic engine with AES-256, SHA-1, SHA-256, SHA-512 and a FIPS 140-2-compliant True Random Number Generator (TRNG)

A Real-Time Clock (RTC) with 10ms resolution

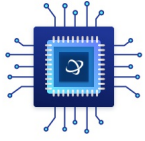
4 general-purpose, 24-bit up/down timers with PWM

Related Products



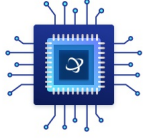
[UPD720200AF1-DAP-A](#)

Renesas Technology Corp
FBGA-176



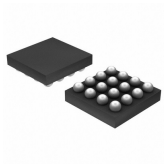
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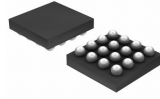
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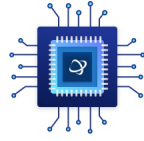
[DA7211-01UA2](#)

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36-UFBGA, WLCSP



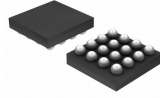
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Renesas Technology Corp
34-UFBGA, WLCSP



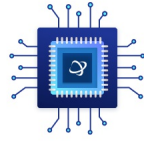
[DA14585-00000VV2](#)

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[DA7211-01UA6](#)

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36-UFBGA, WLCSP



[DA7283-01FV2](#)

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