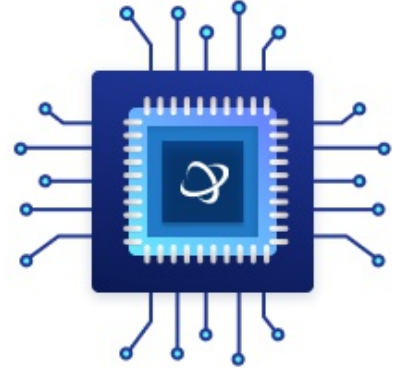


SmartBeat™ Low-Power 1.9GHz DECT Evolution and Audio Solution

|               |   |
|---------------|---|
| Manufacturers | <a href="#">Renesas Technology Corp</a> |
| Package/Case  |   |
| Product Type  | Interface ICs                           |
| RoHS          |   |
| Lifecycle     |   |



Images are for reference only

Please submit RFQ for DA14495 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### Ultra-reliable and low-latency communication

Get technology-ready for the new DECT standard with our advanced SmartBeat™ DA14495. It is ideal for new 1.9 GHz DECT use cases in voice, audio and data. You can make significant improvements in new application fields from microphones and intercom systems to enterprise handsets and headsets. The DA14495's low power consumption and processing capacity for sensor fusion makes it perfect for ULE networks.

The DA14495's architectural layering and towering ensures a highly versatile and easily extendible software platform. It gives you the building blocks you need and the flexibility to create your own unique solutions. Power management is a core component, while the flexible audio API allows you to set up multiple streams independently.

Application: High-end active headsets

## Features

Multi-Level-Modulation high speed 12 slot radio technology

32-bit Arm® Cortex®-M0 MCU operating at up to 165MHz

32-bit Cadence (Tensilica) HiFi 3 DSP operating at up to 290MHz

USB 2.0 HS/FS interface (compatible with USB 3 Type-C)

Multiple HCI clocking schemes for Bluetooth® integration

Triple stereo hardware sample rate converter up to 192kHz

Dual input 10-bit ADC

Supports external QSPI Flash

Integrated battery management for Li-ion and Li-polymer batteries

High-precision fuel gauge

Dead battery wake-up

Extensive range of digital audio interfaces (SPDIF, PDM, SPI, UARTs, I<sup>2</sup>C etc.)

VBGA (7.0mm x 7.0mm) Package

## Application

Intercom systems

Microphone

Professional handsets

Headsets

Voice controlled speakers

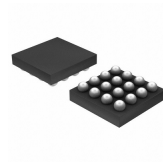
Sensors

## Related Products



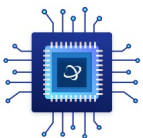
### [UPD720200AF1-DAP-A](#)

Renesas Technology Corp  
FBGA-176



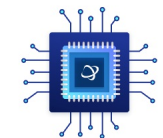
### [DA7218-00U32](#)

Renesas Technology Corp  
34-UFBGA, WLCSP



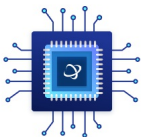
### [DA14695-00000HQ2](#)

Renesas Technology Corp



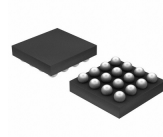
### [DA14586-00F02AT2](#)

Renesas Technology Corp



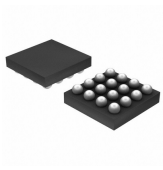
### [DA14585-00000VV2](#)

Renesas Technology Corp



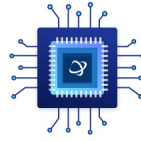
### [DA7211-01UA6](#)

Renesas Technology Corp  
36-UFBGA, WLCSP



[DA7211-01UA2](#)

Renesas Technology Corp  
36-UFBGA, WLCSP



[DA7283-01FV2](#)

Renesas Technology Corp