



Product Overview

EZAIRO 7160 SL: Audio Processor, Wireless-Enabled DSP for Hearing Aids

For complete documentation, see the data sheet.

Enabling wireless connectivity in hearing aids, Ezairo® 7160 SL is an open-programmable DSP-based hybrid module that supports Bluetooth® Low Energy and other 2.4 GHz wireless protocols.

What's Included in Ezairo 7160 SL

Ezairo 7100 Digital Signal Processor (DSP): Includes a high precision, quad-core architecture that delivers 375 MIPS without sacrificing power consumption.

RSL10 Radio IC: Industry's lowest power Bluetooth 5 certified wireless transceiver supporting industry's lowest power Bluetooth Low Energy and proprietary 2.4 GHz protocols

EA2M: 2 Mb EEPROM memory for storing important hearing aid parameters and firmware

Development Tools

Ezairo Preconfigured Suite

Open-Programmable Evaluation & Development Kit (EDK)

To access Ezairo-based development tools, please contact your Sales Representative or Authorized Distributor.

Applications

- Wireless Connectivity
- Audio Processing
- Stereo Audio Streaming
- Control Over Bluetooth Low Energy

End Products

- Hearing Aids

Part Electrical Specifications

| Product | Compliance | Status | WDRC Channels | Graphic EQ Bands | Program Modes | Advanced Algorithms | Acoustic Indicators | Other Features | Wireless Standards | Package Type |
|--------------------|------------------------|--------|---------------|------------------|---------------|---|--------------------------------|--|--|--------------|
| E7160-0-102A57-AG | Pb-free Halide free | Active | 16 | 33 | 8 | Stereo Audio Streaming Automatic Adaptive Directionality Adaptive Noise Reduction Adaptive Feedback Cancellation Directional Microphone | Tone Sequences Voice Alerts | Software Configurable Datalogging Digital Volume Control | Bluetooth® Low Energy 2.4 GHz Proprietary | SIP-57 |
| E7160-0-102A57-BPG | Pb-free Halide free | Active | 16 | 33 | 8 | Adaptive Noise Reduction Environmental Classification Automatic Adaptive Directionality Directional Microphone Stereo Audio Streaming | Voice Alerts Tone Sequences | Datalogging Software Configurable Digital Volume Control | 2.4 GHz Proprietary Bluetooth® Low Energy | SIP-57 |

For more information please contact your local sales support at www.onsemi.com.

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