In recent years, various Japanese car navigation manufacturers have begun introducing HDD audio units to the market that function with the HDD navigation unit and are capable of storing compressed music files on the HDD. This ability to store compressed music files in a memory medium and enjoy them anywhere, as in the case of the portable audio market, has permeated society.

As an HDD audio unit to be equipped on Lexus vehicles carries the Lexus brand name, it must be easy to use and preserve the luxurious ambience of the vehicle, as well as provide a full array of functions.

This essay introduces the enabling technology for HDD audio functions developed by Fujitsu Ten for the corresponding audio unit.

Abstract
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Hiroshi Kawasaki

Development of an Audio Unit for Lexus Vehicles
Development of an Audio Unit for Lexus Vehicles

5.1 Adoption of RAP microcomputer

RAP405 Main Specifications

5.2 I/O-ASIC development

I/O-ASIC Main Specifications

5.3 RAP circuit board

Technical Development Points
5.4 Software development
4.1 Heat radiation design

Comparison with current model:

- 4.7 °C reduction in the CD deck
- 6.4 °C reduction in the MD deck
5.2 High-quality sound design

Profiles of Writers

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