

Speaker Verification

Part number

RS8201

Overview

The RS8201 verifies if the incoming voice signal matches given code book characteristics

Deliverable

- Close source database (GDSII)
- HDL
- OVM test benches
- Support

Applications

- Car key with remote control
- Garage opener remote control
- Hotel room doors
- Key-less entry system
- Hotel room safe

Algorithm

- Energy for voice detection
- Pre-emphasis
- Hamming Window
- Linear Prediction Coding
- Coefficients
- Matching by Vector Quantization

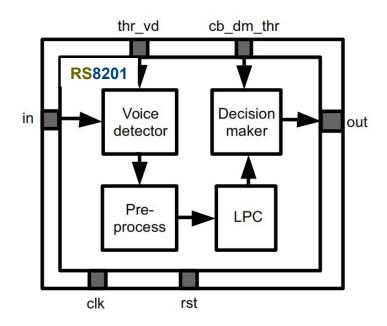
Real time

- Decision output as soon as enough input samples received
- 25 ms latency

Technology node

XFab XH035

Block diagram



Main specifications

Parameters	Value
Input samples bits	16 bits
Input sample rate	11 kHz (recommended)
Output	2 bit (good-bad-n.d.)
Response time	0.2 7 s
Power consumption	15 mW

Interface

AMBA-AXI4 Lite

Contact

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