Cyberon
Leading Speech Solution Provider

Renesas Ready Ecosystem Partner Solution
Cyberon DSpotter

RENESAS
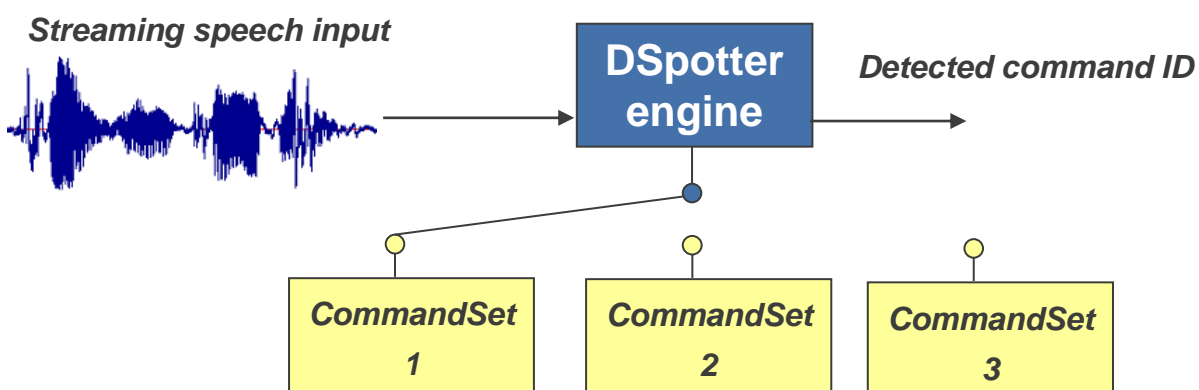**PARTNER NETWORK** READY

Solution Summary

Cyberon Dspotter is a local voice trigger and command recognition solution with robust noise reduction that consumes very low resources and provides high-accuracy performance. It runs on RA MCU Family, RX671, and RX72N supports multiple languages as well as many connectivity function and security capable depending on the selected MCU.

Features/Benefits

- Local voice recognition algorithm, no network connectivity needed
- Phoneme-based modeling
    - Quick command customization: don't have to collect speech data in advance
    - Optimization by model adaptation just with small amount speech data
- Global language support: 44+ languages worldwide
- Small footprint (typically Flash : 200KB + 42B*Xc, RAM: 24KB+130B*Xc; scalable) and cost effective (single DMIC + Renesas MCU)
- DSMT Tool: wake-word and commands customization, performance tuning, testing, no-prior neural network knowledge needed.
- Separation of recognition engine and command model, switching commands dynamically
- Low power and high efficiency MCU with strong security function

Diagrams/Graphics

Streaming speech input

Detected command ID

DSpotter engine

CommandSet 1   *CommandSet 2*   *CommandSet 3*

Target Markets and Applications

- IOT devices
- Home appliances
- Wearable/Hearable devices

Cyberon DSpotter

2024.01

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A Leading Embedded Speech Solution Provider

About Us

Cyberon Corporation, founded in 2000, with its headquarter in Taipei, Taiwan, is a leading embedded speech solution provider and supported by experts experienced in Speech Recognition and Text-to-Speech technologies for tens of years. Cyberon's speech solution is developed specifically for mobile & portable devices to provide users a convenient, natural and reliable user experience.

We not only commit ourselves to deliver highly reliable products, but ensure partners to acquire professional and real-time support. Developers can integrate our solutions with minimal effort. Furthermore, Cyberon's ability in customization gives our partners more ideas to show differentiation in today's competitive market.

Contact Info

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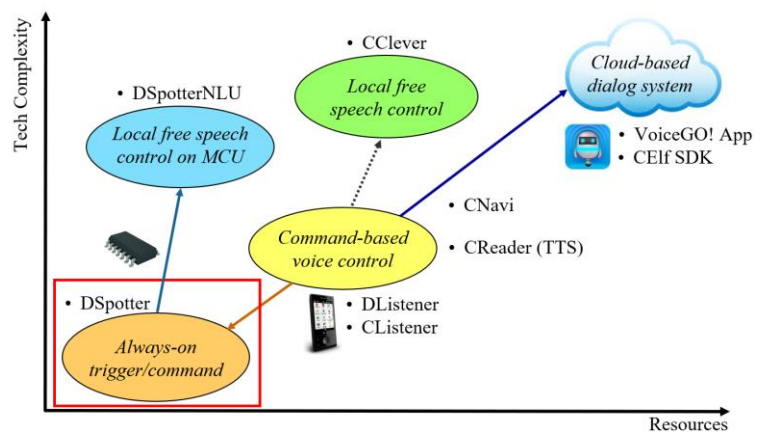
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