

The Radio Tuner software development kit (SDK) provides a world-wide tuner reception solution for the relevant reception standards covering all layers from RF device control to radio application. The software stack architecture offers a scalable turn-key reception solution: from remote tuners boxes to high end head units. It enables a reliable fast to market solution with an excellent track record for more than ten years.

Examples of Supported Systems

Supported OSs

- Android
- Linux
- QNX

Supported Tuner SoCs

- NXP SAF7741 DiRaNa2
- NXP SAF7751 DiRaNa3
- NXP SAF400x Mercury
- NXP SAF36xx Saturn
- NXP TEF7006
- NXP TEF7018 Sabre
- Panasonic Amigo3.5
- Panasonic Amigo Lite2

Supported Tuner Front-End

- NXP TEF7000 LeafDice
- SiLabs SI479x

Supported Base Band Processors

- NXP SAF36xx Saturn

Supported Data Decoder

- SiLabs SI461x

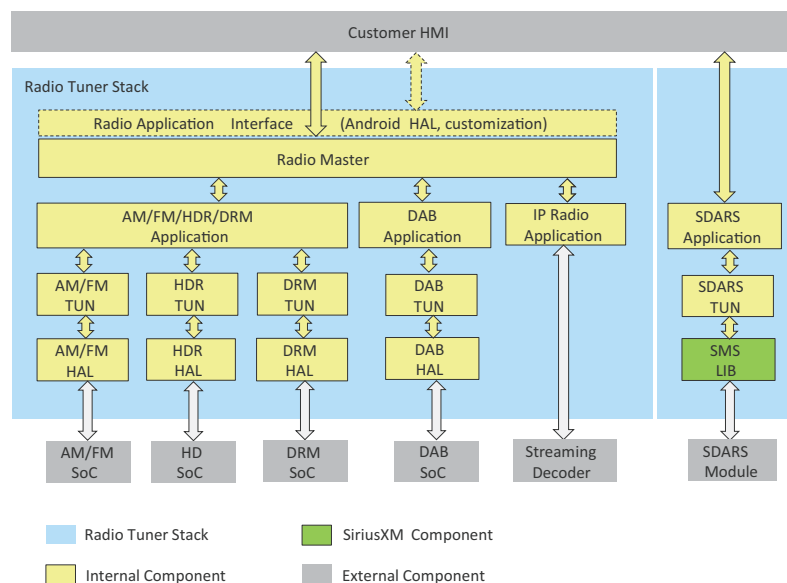
Please contact OpenSynergy for the complete list of the supported systems

Benefits

- World-wide coverage for relevant reception standards AM, FM, DAB, HD Radio, SDARS, DRM, CDR (under development)
- Easy integration on Android platforms
- Same quality level in every vehicle
- Mass production proven with more than 10 years of continuous tuner development
- Development time reduction by early prototyping thanks to delivered own GUI
- Automotive-grade support (Test, Validation, Certification) according to A-Spice Level 3

Features

- Highly scalable: from low-end remote tuner to high-end head unit
- Flexible tuner control architecture from single tuner to multiple tuner system
- Portable on various OEM-specific hardware
- Easy to adapt to new BSP and OS (e.g. Android, Linux, QNX)
- Extensive tooling support for configuration, functional verification, tuning and evaluation
- Software defined radio support



Key Features

AM and FM

- Tuning methods AM and FM
- RDS decoding
- PSN / PTY / PTY31
- Radiotext / RT+ / eRT
- TP / TA
- EON TA / REG
- TMC
- Phase Diversity
- Background Scan (AM, FM)
- AF follow me

DAB

- Tuning methods DAB
- EPG/SPI
- DLS
- PTY
- Announcements
- Emergency Warning System
- Slideshows
- Journaline
- TPEG
- MRC via 3rd Tuner
- Background Scan
- Service Linking

SDARS

- Tuning methods SDARS
- Fuel Data Service
- Movie Data Service
- Sports Data Service
- Traffic Plus Data Service
- Phonetics Data Service
- EPG Data Service
- Parking Data Service
- Weather & Security Data Service
- Canadian Fuel Data Service
- Stocks Data Service

HD Radio

- Tuning methods HDR
- Service Label
- Artist Information
- PTY
- Emergency Alerts
- HD TMC
- HD TPEG
- Doppler Weather Radar
- Simple Traffic Maps
- Maximum Ratio Combining
- Service Linking
- Background Scan

DRM

- Tuning methods DRM
- EPG/SPI
- Announcements
- Text Messages
- Journaline
- Background Scan

CDR (under development)

- Tuning methods CDR
- Basic audio features
- Data service support (under consideration)

Service Tool (SVT)

- Windows application that is used as tool for tuning, configuration, functional verification, evaluation and debugging
- Tuner GUI, HMI substitute during development
- Radio Signal Quality Monitor

Support

The Radio Tuner SDK comes with standard support and access to updates of the product. In addition, OpenSynergy's Professional Services are available to port the tuner stack to your system or to help in configuration or integration tasks.

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