

The Radio Tuner software development kit (SDK) provides a world-wide tuner reception solution for all relevant reception standards covering all layers from RF device control to radio application. The software stack architecture provides 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 Radio Tuner SoCs

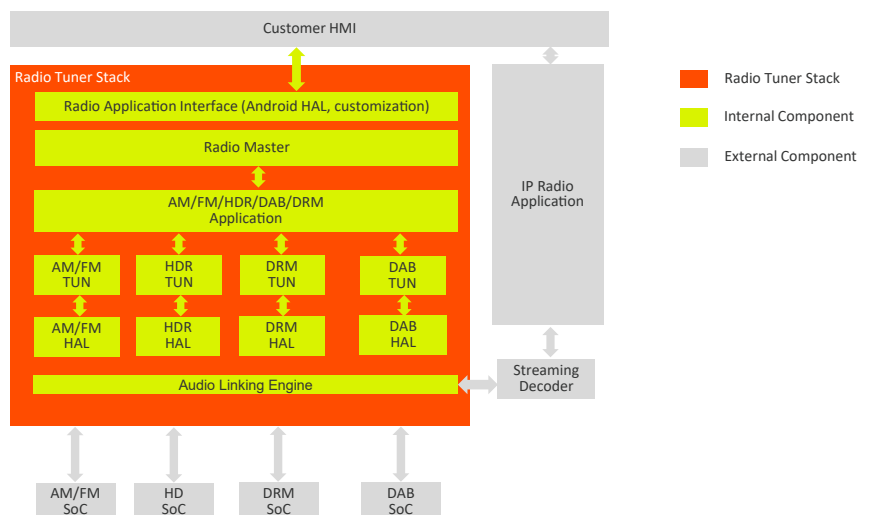
- NXP Mercury (SAF400x)
- NXP DiRaNA3 (SAF7751)
- NXP Saturn (SAF360x)
- NXP Merlin (TEF7100)
- NXP Radion (TEF3200)
- NXP Sabre (TEF7018)
- NXP TMC Tuner (TEF7006)
- SiLabs Dual Eagle (Si479xx)
- SiLabs Digital Falcon (Si46xx)
- Panasonic Amigo3.5
- Panasonic Amigo Lite2

### Benefits

- World-wide coverage for all relevant reception standards AM, FM, DAB, HD Radio, 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

### 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 (SDR) support
- Hybrid-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
- Maximum Ratio Combining
- Background Scan
- Service Linking

### 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 hardware or to help in configuration or integration tasks.

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