

**Tuners AM/FM Radio Tuner IC Automotive 64-Pin LQFP
Tray**

Images are for reference only

[Inquiry](#)**Manufacturer:** [STMicroelectronics, Inc](#)**Package/Case:** LQFP64**Product Type:** RF Integrated Circuits**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active**General Description**

The TDA7786x (ELITE) tuner is an optimized high-performance AM/FM tuner IC family for car-radio applications, suitable also (in combination with an external baseband decoder) for HD Radio™ reception. Its members integrate mixers and IF amplifiers for AM, FM and WX, fully integrated VCO and PLL synthesizer, IF- processing including adaptive bandwidth control, stereo decoder, RDS decoder, and digital interfaces for external HD Radio™ decoding on a single IC. AM/FM IBOC base band filtering is available in parallel to standard analog reception. The utilization of digital signal processing results in numerous advantages: very low number of external components, very small space occupation and easy application, very high selectivity due to digital filters, high customization possibility through software control, automatic alignment and a powerful DSP for custom processing. Two versions of the device cover different application/performance requirements: TDA7786: entry-level, high-performance tuner; TDA7786M: tuner with enhanced behavior in case of FM multipath, thanks to the proprietary MuSICA algorithm. Both versions are HW- and SW-compatible.

Key Features

AEC-Q100 qualified

FM, AM and weather band reception

Fully integrated VCO for world tuning

High performance PLL for fast RDS system

Integrated AM LNA and PIN diodes

Automatic self alignment for FM front-end pre-selection filter and image rejection

Integrated IF filters with high selectivity, dynamic range and adaptive bandwidth control

Drift-free Digital-IF signal processing with high performance

RDS demodulation with group and block synchronization

High performance stereo decoder with noise-blanker

Digital interface for HD Radio™ reception with digital audio blending

I2C bus-controlled

I2S input/output digital audio interfaces

Single 5 V supply

LQFP64 package

MuSICA (multipath noise reduction) algorithm available for premium version of the device

Recommended For You

TDA7706

STMicroelectronics, Inc
LQFP64

TDA7540N

STMicroelectronics, Inc
QFP

TDA7786C

STMicroelectronics, Inc
LQFP64

TDA7541

STMicroelectronics, Inc
QFP64

TDA7707

STMicroelectronics, Inc
QFN

TDA7705

STMicroelectronics, Inc
QFP

TDA7529

STMicroelectronics, Inc
QFP

E-TDA7479D

STMicroelectronics, Inc
SOP16

TDA7708S

STMicroelectronics, Inc
QFN52

TDA7708CB

STMicroelectronics, Inc

QFN64

TDA7708CBTR

STMicroelectronics, Inc

QFP64

TDA7786TR

STMicroelectronics, Inc

LQFP-64

TDA7786MIR

STMicroelectronics, Inc

LQFP-64

TDA7540NIR

STMicroelectronics, Inc

QFP80

TDA7705TR

STMicroelectronics, Inc

QFP64