


Tuners AM/FM/HD Radio Automotive 64-Pin VFQFPN EP Tray

Manufacturer:	STMicroelectronics, Inc
Package/Case:	QFP64
Product Type:	RF Integrated Circuits
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Unconfirmed



Images are for reference only

[Inquiry](#)

General Description

The TDA7708 is a single chip fully-CMOS AM/FM tuner aimed at receivers for terrestrial radio broadcasting. The TDA7708 is a complete integrated and optimized RF tuner for AM/FM reception. It allows the implementation of AM/FM solution (and also HD-Radio™ with external STMicroelectronics's STA680 co-processor) for automotive grade receivers and other applications. The TDA7708 combines state-of-art performance with minimum external component count, making it therefore ideal for integration into car radios and other radio devices with challenging performance, quality, reliability and, last but not least, cost requirements. Such a low external component count is made possible by cutting-edge circuit and implementation techniques that overcome the major challenges affecting both very-low and zero IF receivers. The TDA7708 features multiple front-end low-noise amplifiers (LNAs) to cover AM LW/MW/SW bands, and the entire FM band, with advanced automatic gain control (AGC) amplifier and mixer stages. After on-chip IF filtering, the TDA7708 digitizes the signal with a very high dynamic range ADC; it processes the complex phase-quadrature baseband signal allowing applications like multipath noise mitigation, and integrated RDS decoding. The TDA7708 furthermore integrates the HD-Radio™ channel filtering. Besides providing optimal AM/FM quality reception, the TDA7708 makes it the ideal solution to realize a complete HD-Radio™ receiver solution (in combination with the external STA680 HD-Radio™ decoder) or a DRM receiver (paired to the STA660DRM), with a low bill of material, high performance and real automotive grade quality and reliability. The TDA7708CB requires a very small FW code to be downloaded for booting the IC, thus making it especially suited to systems whose microcontroller has limited code storage capability.

Key Features

AEC-Q100 qualified

AM/FM reception with digital IF processing

Fully automotive grade CMOS design

AM/FM Band

Low-IF, DSP-based architecture

Very high dynamic range built-in IF-ADC

Minimum external component count

Very small footprint package

Multipath noise mitigation processing

RDS demodulation with group and block synchronization

Compatible with HD-Radio™ and DRM

Digital Audio Output

Fully RoHS-compliant

Recommended For You

TDA7437N

STMicroelectronics, Inc

QFP

TDA7511

STMicroelectronics, Inc

QFP

E-TDA7512

STMicroelectronics, Inc

QFP

ACS108-6SA

STMicroelectronics, Inc

TO-92-3(StraightLead

T410-600B-TR

STMicroelectronics, Inc

TO-252

ACS120-7ST

STMicroelectronics, Inc

TO-220

T410-600T

STMicroelectronics, Inc

TO-220

ACS302-5T3

STMicroelectronics, Inc

SO-20

BIB16-800CWRG

STMicroelectronics, Inc

TO-220

BTA16-800BWRG

STMicroelectronics, Inc

TO-220

BTB24-800BRG

STMicroelectronics, Inc

TO-220AB

TN1215-800G-TR

STMicroelectronics, Inc

TO-263

T435-800B-TR

STMicroelectronics, Inc

TO-252

ACS102-6TI-TR

STMicroelectronics, Inc

SOP-8

BTA24-600CWRG

STMicroelectronics, Inc

TO-220