


MCU 32-bit e200z0h RISC 384KB Flash 5V Automotive 100-Pin
LQFP T/R



Images are for reference only

Manufacturer:	STMicroelectronics, Inc
Package/Case:	LQFP100
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

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General Description

The TDA7564B is a new BCD technology quad bridge type of car radio amplifier in Flexiwatt25 / PowerSO36 package specially intended for car radio applications. Thanks to the DMOS output stage the TDA7564B has a very low distortion allowing a clear powerful sound. Among the features, its superior efficiency performance coming from the internal exclusive structure, makes it the most suitable device to simplify the thermal management in high power sets. The dissipated output power under average listening condition is in fact reduced up to 50% when compared to the level provided by conventional class AB solutions. This device is equipped with a full diagnostics array that communicates the status of each speaker through the I2C bus.

Key Features

Multipower BCD technology

MOSFET output power stage

DMOS power output

New high efficiency (class SB)

High output power capability 4x28 W/4 Ω @ 14.4 V, 1 kHz, 10 % THD, 4x50 W max, power

Max. output power 4x72 W/2 Ω

Full I2C bus driving:

Standby

Independent front/rear soft play/mute

Selectable gain (for low noise line output function)

High efficiency enable/disable

I2C bus digital diagnostics (including AC and DC load detection)

Standby

Independent front/rear soft play/mute

Selectable gain (for low noise line output function)

High efficiency enable/disable

I2C bus digital diagnostics (including AC and DC load detection)

Full fault protection

DC offset detection

Four independent short circuit protection

Clipping detector (2 %/10 %)

Linear thermal shutdown with multiple thermal warning

ESD protection

Recommended For You

SPC572L64F2BC6AR

STMicroelectronics, Inc

TQFP80

SPEAR320-2

STMicroelectronics, Inc

BGA

SPC574K72E5C6FAR

STMicroelectronics, Inc

LQFP144

SPC58NE84E7QM HAR

STMicroelectronics, Inc

LQFP-176

SPC58NN84C3RM HBR

STMicroelectronics, Inc

FPBGA-292

SPC58NN84E7RM HBR

STMicroelectronics, Inc

LQFP-176

SPC560B50L5C6E0X

STMicroelectronics, Inc

LQFP144

SPC560B50L5C6E0Y

STMicroelectronics, Inc

LQFP144

SPC560B60L3C6E0X

STMicroelectronics, Inc

LQFP100

SPC560B50L3C6E0X

STMicroelectronics, Inc

LQFP100

SPC560B40L3B4E0X

STMicroelectronics, Inc

LQFP100

SPC560B50L3B4E0X

STMicroelectronics, Inc

LQFP100

SPC570S50E1CE FAR

STMicroelectronics, Inc

LQFP64

SPC564A80L7CFAR

STMicroelectronics, Inc

LQFP-176

SPC560B54L3C6E0X

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