


MCU 32-bit e200z0h RISC 256KB Flash 3.3V/5V Automotive 64-Pin LQFP T/R



Images are for reference only

Manufacturer:	STMicroelectronics, Inc
Package/Case:	QFP64
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

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General Description

These 32-bit automotive microcontrollers are a family of system-on-chip (SoC) devices designed to be central to the development of the next wave of central vehicle body controller, smart junction box, front module, peripheral body, door control and seat control applications.

This family is one of a series of next-generation integrated automotive microcontrollers based on the Power Architecture technology and designed specifically for embedded applications.

The advanced and cost-efficient e200z0h host processor core of this automotive controller family complies with the Power Architecture technology and only implements the VLE (variable-length encoding) APU (auxiliary processing unit) and provides improved code density. It operates at speed of up to 48 MHz and offers high performance processing optimized for low power consumption. It capitalizes on the available development infrastructure of current power architecture devices and is supported with software drivers, operating systems and configuration code to assist with the user's implementations.

The device platform has a single level of memory hierarchy and can support a wide range of on-chip static random access memory (SRAM) and internal flash memory.

Key Features

Memory

Interrupts

16-channel eDMA

GPIOs: 45 (LQFP64), 79 (LQFP100)

Timer units

16-bit counter time-triggered I/Os

12-bit analog-to-digital converter (ADC) with up to 33 channels

Recommended For You

SPC572L64F2BC6AR

STMicroelectronics, Inc
TQFP80

SPEAR320-2

STMicroelectronics, Inc
BGA

SPC574K72E5C6FAR

STMicroelectronics, Inc
LQFP144

SPC58NE84E7QM HAR

STMicroelectronics, Inc
LQFP-176

SPC58NN84C3RMHBR

STMicroelectronics, Inc
FPBGA-292

SPC58NN84E7RMHBR

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

STMicroelectronics, Inc
LQFP100