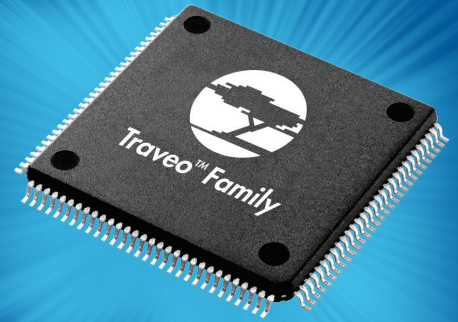


CYPRESS

TRAVEO™ MCU FAMILY S6J3510 SERIES FOR BODY CONTROL



PRODUCT OVERVIEW

INTRODUCTION

Cypress' Traveo™ S6J3510 Series of microcontrollers are designed for automotive body control units. These microcontrollers enable you to add next-generation functionalities such as Controller Area Network with Flexible Data rate (CAN FD) and secure specifications into your automotive design.

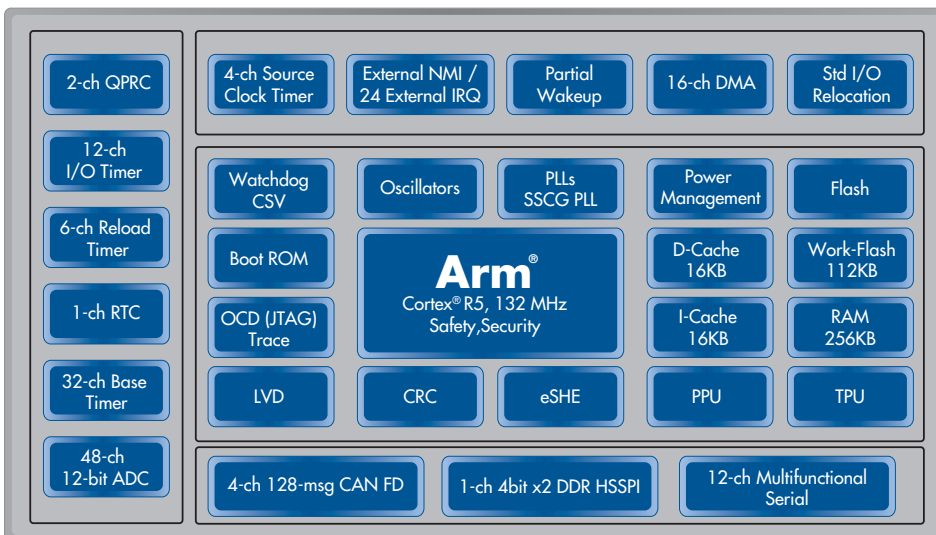
Flexible and High-Speed Data Transfers

CAN FD is a cost-effective, high-speed in-vehicle network. CAN FD supports data fields up to 64 bytes and data transfer rates up to 5 Mbps.

Built-in Security

In addition to conventional flash security that protects data stored in the microcontroller, the S6J3510 Series is equipped with SHE (HIS SHE specification Version 1.1). SHE management within the microcontroller prevents unauthorized access, data modification, and theft.

Block Diagram for S6J3510 Series



FEATURES

CPU core: Arm® Cortex® R5F

Max operating frequency: 132MHz

Operating power supply:

- 2.7 V to 5.5 V

Flash memory: 2,112 kB

A/D converter: 12-bit

- Max 48-channels

CAN FD: Max 4-channels

MFS communication: Max 12-channels

Security: SHE (HIS SHE specification Version 1.1)

PACKAGE:

- LQFP-144 pin
- TEQFP-144/176 pin

APPLICATIONS

BCM (Body Control Module)

HVAC (Heating, Ventilation, and Air Conditioning)

Gateway

Collision Warning

Lighting

KeyLess Entry

Car information system

S6J351C SERIES PRODUCT LINEUP

Part Number	CPU Freq. (MHz)	Power Supply (V)	Memory Type	Code FLASH + Work FLASH (KB)	RAM (KB)	12bit ADC (ch)	CAN FD (ch)	Multi-Function Serial	PKG	Notes
S6J351CJ	132	5.0 V ± 0.5 V or 3.3 V ± 0.3 V	Main Flash + Work Flash	2112 + 112	256 (Including Back-up RAM)	48ch	4ch	12ch	TEQPF-176(0.5mm)	DMAC 16ch, Timer, DDR Quad SPI, SHE, Note: Change spec for pin number
S6J351CH						40ch		12ch	LQFP-144(0.4mm)/ LQFP-144(0.5mm)/ TEQFP-144(0.5mm)/ TEQFP-144(0.4mm)	

Please refer to the Ordering Information in the datasheet for parts availability.

DEVELOPMENT TOOLS

IDE	ICE	Evaluation Board
Green Hills Software (MULTI®)	Green Hills Software (Green Hills Probe™)	S6T3J200511A176A2
IAR Systems (IAR Embedded Workbench)	IAR Systems (I-jet)	

GET STARTED NOW

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