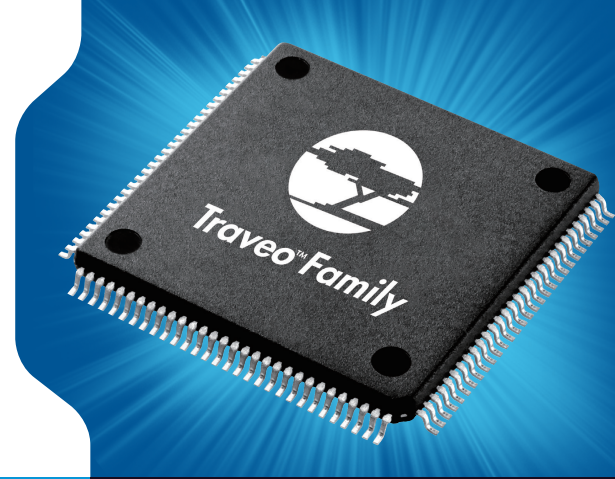


CYPRESS

Traveo™ MCU Family Classical Cluster Solutions



PRODUCT OVERVIEW

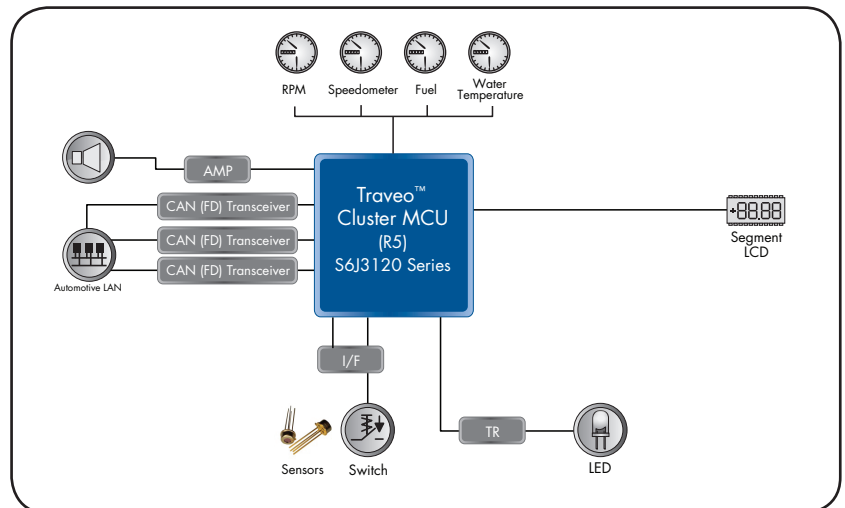
CYPRESS TRAVEO FAMILY

The Traveo family expands the company's automotive applications, scalability and high performance into one line-up and at the same time adds new features to fulfill the latest requirements of the automotive industry. Based on the powerful Arm® Cortex®-R5 and R5F core in single and dual core operations, it offers state-of-the-art real time performance, safety and security features. The family supports the latest in-car networks and offers high performance graphics engines optimized for a minimum memory footprint and embeds dedicated features to increase data security in the car.

Cypress Traveo – S6J3120 Series

Single-Chip Solution for Segment-LCD and Stepper motor Hybrid cluster application.

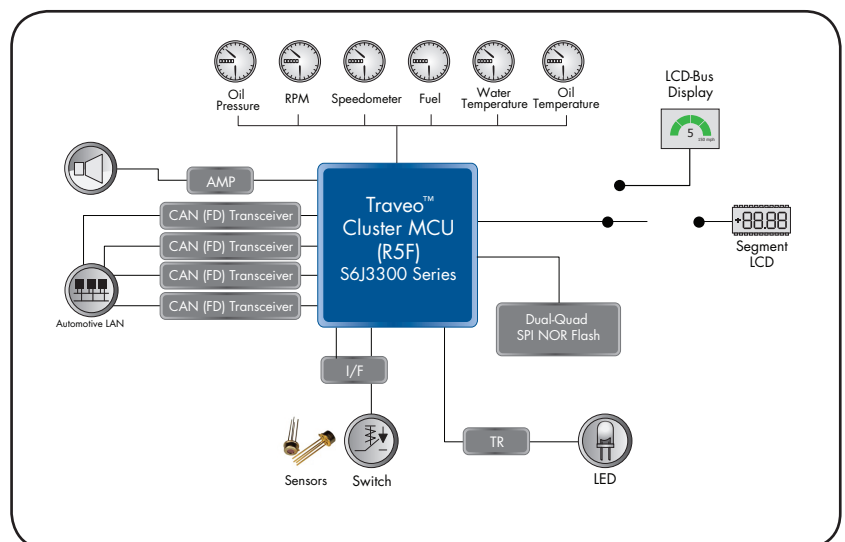
- 32-bit RISC microcontroller with Arm® Cortex®- R5 core
- 128 MHz
- 1 MB Flash
- CAN FD
- SHE (Secure Hardware Extension)
- Segment-LCD controller
- Stepper Motor Controller : Max 4 channels
- Package option: TEQFP144



Cypress Traveo – S6J3300 Series

Single-Chip Solution for Segment-LCD/LCS Bus display and Stepper motor Hybrid cluster application.

- 32-bit RISC microcontroller with Arm® Cortex®- R5F core
- 132 MHz
- 1 MB - 2MB Flash
- CAN FD
- DDR-Quad SPI
- SHE (Secure Hardware Extension)
- Segment-LCD controller
- Stepper Motor Controller : Max 6 channels
- LCD-Bus interface
- High quality sound system to allow various modes of sound generation and outputs
- Package option: LQFP/TEQFP-144 (0.4 mm & 0.5 mm), TEQFP-176



PRODUCT LINEUP

S6J3120 Series

Products	CPU Freq. (MHz)	Pow. (V)	Memory Type	Main FLASH + Work FLASH (KB)	RAM (KB)	Simple Video Output	LCDC	Multi-Function Serial	Sound Mixer	PKG	Note
S6J3128H	128	5	Main Flash + Work Flash	576 + 112	48	—	4com 32seg	Max 10ch	—	TEQFP144	ADC 50ch(12bit), SMC 4ch, DMAC 16ch, CAN FD 3ch, Sound Generator, Timer, Serial (UART, I2C, SPI), Backup-RAM : 8KB(Separated RAM)
S6J3129H				832 + 112	64						
S6J312AH				1088 + 112	80						

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

S6J3300 Series

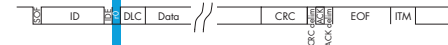
Products	CPU Freq. (MHz)	Pow. (V)	Memory Type	Main FLASH + Work FLASH (KB)	RAM (KB)	Simple Video Output	LCDC	Multi-Function Serial	Sound Mixer	PKG	Note		
S6J336Ax	132	3.3 or 5	Main Flash + Work Flash	1088 + 112	256 (Including Back-up RAM)	LCD-Bus	4com 32seg	Max 12ch	Yes	digit x: H: LQFP/TEQFP144 J: TEQFP176	ADC 48ch(12bit), SMC 6ch, DMAC 16ch, CAN FD 4ch, Sound Generator, Timer, Serial (UART, I2C, SPI), DDR Quad SPI, SHE, Backup-RAM Note: The number of available channels of a feature depends on the number of pins of the product.		
S6J336Bx				1600 + 112									
S6J336Cx				2112 + 112					—				
S6J337Ax				1088 + 112									
S6J337Bx				1600 + 112									
S6J337Cx				2112 + 112									

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

CAN FD (CAN WITH FLEXIBLE DATA RATE)

CAN FD is a cost effective alternative to FlexRay and designed to close the gap between CAN and FlexRay. CAN FD supports data-fields up to 64bytes and a data rate up to 5Mbps allowing for a much faster software download rate.

Conventional Frame Format Normal Data Speed Frame



CAN FD Frame Using Elevated Data Field Bit Rate



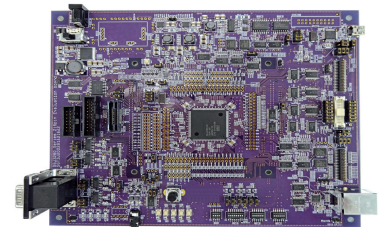
■ Indicates bits sent at faster bit rate

■ CAN FD can be recognized by a recessive bit being sent instead of the dominant r0 of the standard CAN

DEVELOPMENT TOOLS

Products	IDE	ICE	Evaluation Board
S6J3120 Series	Green Hills Software (Multi®)	Green Hills Software (Green Hills Probe™)	S6T3J300121B144A2
	IAR Systems (IAR Embedded Workbench)	IAR Systems (I-jet)	
S6J3300 Series	Green Hills Software (Multi®)	Green Hills Software (Green Hills Probe™)	S6T3J200361A145A2 S6T3J200361A176A2
	IAR Systems (IAR Embedded Workbench)	IAR Systems (I-jet)	

To understand how you can transform your Automotive Design Experience, contact your Cypress Sales Representative or email us at automotive@cyress.com



Traveo™ Family S6J3200 Board

Cypress Semiconductor Corporation

198 Champion Court, San Jose CA 95134
phone +1 408.943.2600 fax +1 408.943.6848
toll free +1 800.858.1810 (U.S. only) Press "1" to reach your local sales representative

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