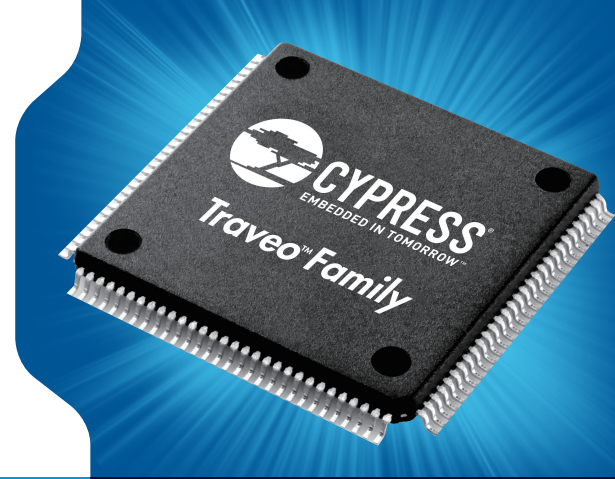


CYPRESS

Traveo™ MCU Family Cluster Solutions



PRODUCT OVERVIEW

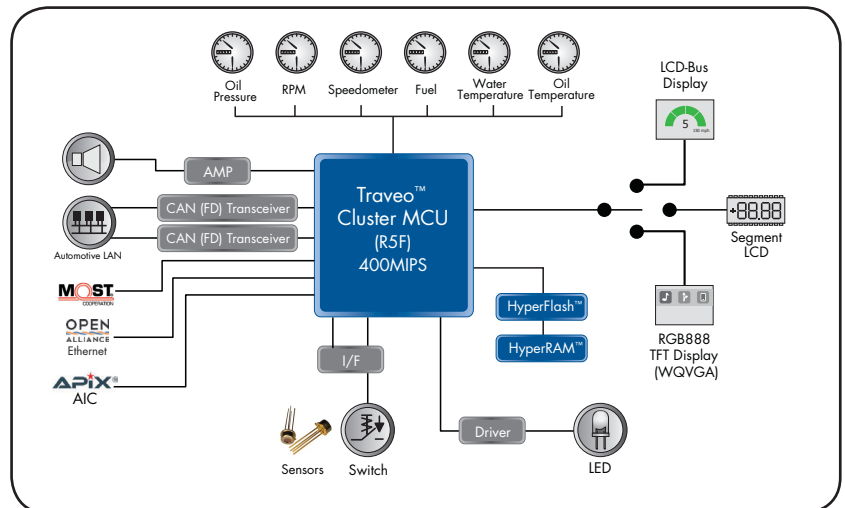
CYPRESS TRAVEO FAMILY

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 – S6J3300 Series

Single-Chip Solution for classical automotive cluster applications with gauges and low-end hybrid cluster applications.

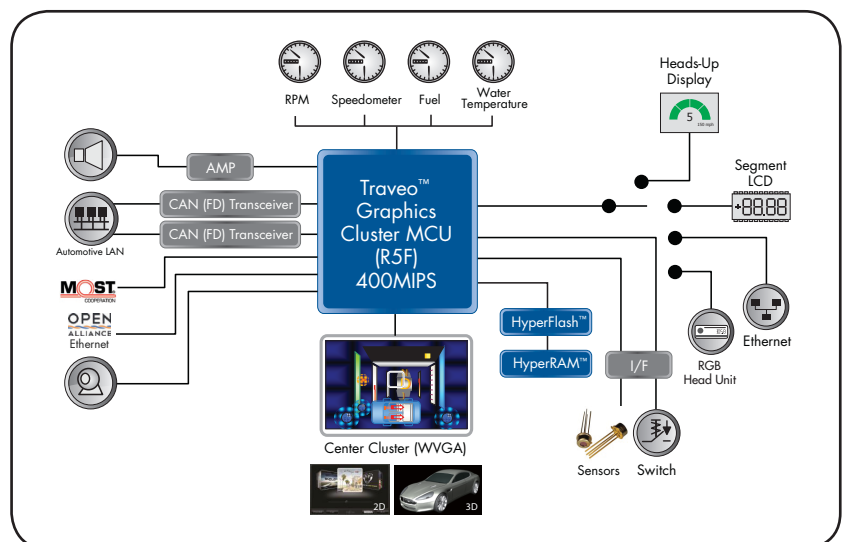
- 240MHz ARM Cortex R5F offering about 400MIPS
- 1.6MB to 4MB Flash, 512KB RAM
- Rich connectivity: CAN-FD, MediaLB, Ethernet AVB, APIX, DDR-Quad-SPI and HyperBus
- Secure Hardware Extension (SHE)
- Simple graphic capability supporting TFT with RGB888 and LCD-Bus Interface
- Sound system to allow various modes of sound generation and outputs
- Six pair of Stepper Motor Controller/Driver
- Package option: TEQFP144, TEQFP176, TEQFP208



Cypress Traveo – S6J3200 Series

Single-Chip Solution for Hybrid Instruments cluster with two TFT Displays.

- 240MHz ARM Cortex R5F offering about 400MIPS
- 1MB to 4MB Flash, 192KB to 512KB RAM
- 2D and 3D graphics engine
- Dual TFT display controller
- Rich connectivity like CAN-FD, MediaLB, Ethernet AVB, DDR-Quad-SPI and Dual HyperBus
- Secure Hardware Extension (SHE)
- High quality sound system to allow various modes of sound generation and outputs
- Six pair of Stepper Motor Controller/Driver
- Package option: TEQFP208, TEQFP216



PRODUCT LINEUP

S6J3300 Series

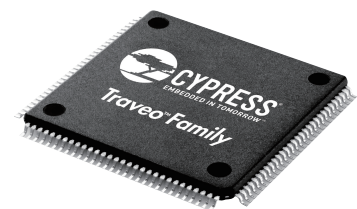
Products	CPU Freq. (MHz)	Pow. (V)	Memory Type	Code FLASH + Work FLASH (KB)	RAM (KB)	Simple Video Output	Multi-Function Serial	Ethernet & MediaLB	Sound Mixer, Audio DAC	APIX AIC	PKG	Note
S6J334xy	240	1.11 3.3 5.0	Code Flash + Work Flash	digit x: B: 1600 + 112 C: 2112 + 112 D: 3136 + 112 E: 4160 + 112	512	LCD-Bus & RGB888	12	—	—	—	digit y: H: TEQFP144 J: TEQFP176 K: TEQFP208	ADC 48ch (12bit), SMC 6ch, DMAC 16ch, CAN FD 6ch, Sound Generator, Timer, Serial (UART, I2C, SPI), LCD (4com 32seg), 1 x Video OUT, DDR Quad SPI, HyperBus, SHE, Backup-RAM
S6J333xy								Yes	—	—		
S6J332xy									Yes	—		
S6J331xy										Yes		

S6J3200 Series

Products	Freq. MHz	Pow. (V)	Memory Type	Code FLASH + Work FLASH (KB)	RAM (KB)	# of Video Outputs	VRAM (KB)	Graphic Engines	HyperBus	Sound Mixer Audio DAC	PKG	Note				
S6J32AAxS	160	1.2 3.3 5.0	Code Flash + Work Flash	1088 + 112	192	1	1024	2D	2ch on one shared bus	—	digit x: K: TEQFP-208 L: TEQFP-216	ADC 50ch (12bit), SMC 6ch, DMAC 16ch, CAN FD 4ch, Sound Generator, Timer, Serial, LCD (4com 32seg), 1 x Video OUT, TCON, Quad SPI, HyperBus, SHE, Backup-RAM				
S6J32BAxS								1								
S6J32CAxS								—								
S6J32DAxS								1								
S6J323CxS	240			2112 + 112	256	2	2048	2D		—		ADC 50ch (12bit), SMC 6ch, DMAC 16ch, CAN FD 4ch, Sound Generator, Timer, Serial, LCD (4com 32seg), Video IN, 2 x Video OUT, TCON, Quad SPI, HyperBus, Ethernet AVB, MediaLB, SHE, Backup-RAM				
S6J324CxS								1								
S6J325CxS								—								
S6J326CxS								1								
S6J327CxS						2	2D	3ch on two shared busses	—	ADC 50ch (12bit), SMC 6ch, DMAC 16ch, CAN FD 4ch, Sound Generator, Timer, Serial, Video IN, 2 x Video OUT, FPD, TCON, Quad SPI, HyperBus, Ethernet AVB, MediaLB, SHE, Backup-RAM						
S6J328CxS						2 + FPD	2D & 3D		1							
S6J32EExS						240	4160 + 112	512	2 + FPD				2048	2D	2ch on one shared bus	—
S6J32FExS															1	
S6J32GExS	3ch on two shared busses			1												
S6J32KExS	240			4160 + 112	512	2 + FPD	2048	2D & 3D	2ch on one shared bus			—	ADC 50ch (12bit), SMC 6ch, DMAC 16ch, CAN FD 4ch, Sound Generator, Timer, Serial, LCD (4com 32seg), Video IN, 2 x Video OUT, TCON, Quad SPI, HyperBus, Ethernet AVB, MediaLB, SHE, Backup-RAM			
S6J32LExS									1							
S6J32MExS									3ch on two shared busses			1				
S6J32NExS									2	2ch on one shared bus		—				

DEVELOPMENT TOOLS

Products	IDE	ICE	Evaluation Board
S6J3300 Series S6J3200 Series	Green Hills Software (Multi®) IAR Systems (EVRM)	Green Hills Software (Green Hills Probe™) IAR Systems (I-Jet™/I-JetTrace™)	Available from Cypress



Traveo™ Family S6J3200 Package

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

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

© 2015-2017 Cypress Semiconductor Corporation. All rights reserved. All other trademarks are the property of their respective owners.
002-03386 REV.*D

