

Traveo™ Family S6J33xx Series Solution Example: Instrument Cluster Classic Segment

Traveo S6J33xx Series Value

Design Challenges

- CAN FD¹ communication
- Secure in-car network and authentication
- High-quality sound
- High-speed external memory interface

Traveo Solution

- Supports 2 channels CAN FD¹ that boost the maximum payload data rate of at least 8 Mbps² and the payload per message from 8 bytes to 64 bytes.
- Implements Secure Hardware Extension (SHE) and security software
- Implements waveform generator, PCM³, PWM⁴ and mixer
- Supports HyperBus™⁵

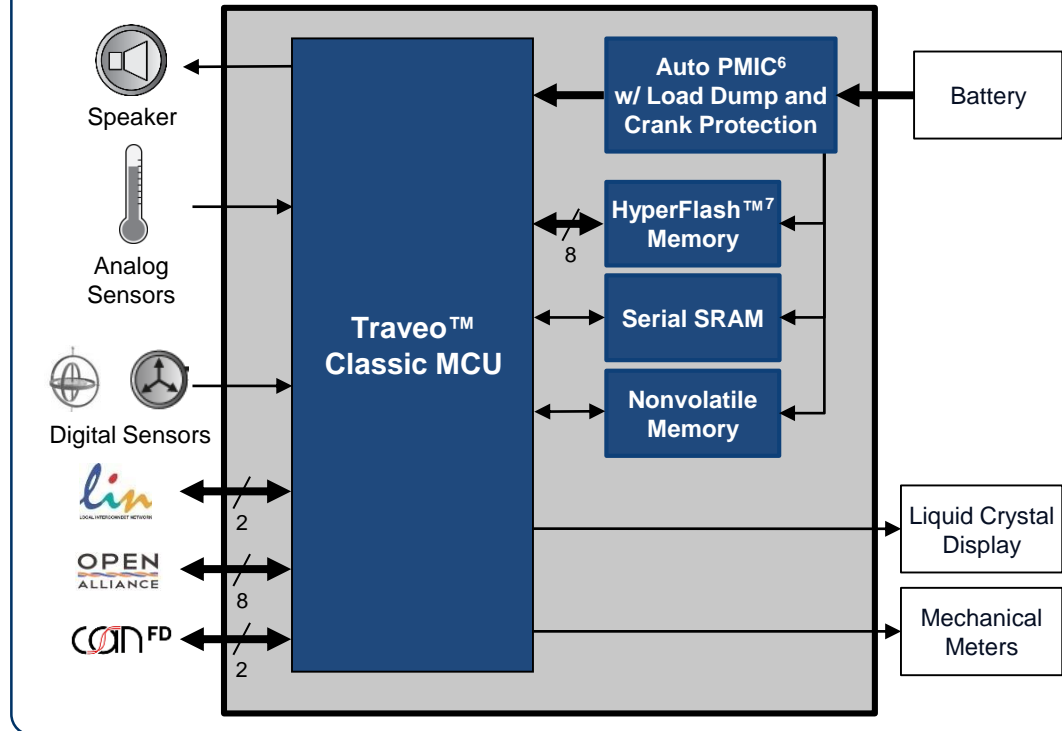
Suggested Collateral

- Datasheet: [S6J331x Series](#)
 Hardware Manual: [S6J3300 Series](#)

Features

- Stepper motor drivers
- LCD segment drivers and LCD controller
- Interfaces to automotive networks
 - Ethernet, CAN FD, LIN
- Up to 4MB embedded flash

Block Diagram



Availability

Juno	Sampling:	Now (since Q4 2015)
	Production:	Now (since Q1 2017)
Artemis	Sampling:	Now (since Q2 2016)
	Production:	Now (since Q1 2017)

¹ Controller Area Network Flexible Data rate
² Maximum defined by external components only
³ Pulse Code Modulation
⁴ Pulse Width Modulation

⁵ A high-bandwidth, 12-signal interface that transfers information over 8 I/O signals at Double Data Rate, delivering up to 333 MBps
⁶ Power Management IC
⁷ A Cypress NOR Flash Memory product family that offers higher bandwidth than Quad SPI NOR Flash Memory with one-third the number of pins of parallel NOR Flash Memory