Product brief

TRAVEO™ II CYT2B6/2B7/2B9/2BL body MCU series

Microcontrollers for automotive body control

TRAVEO™ II CYT2B6/2B7/2B9/2BL body MCU series offers cutting-edge performance and robust safety features for automotive body applications that need fast communication and quick response time. The TRAVEO™ II family of microcontrollers has a wide range of options for you to choose from.

Key benefits

- Single chip solution offering automotive functions by Arm® Cortex®-M4
- Optimized memory footprint for reduced BOM
- State-of-the-art security with Secure Boot support by a dedicated M0+ core and security hardware to accelerate cryptographic functions
- Real FOTA support based on security and dual-bank flash
- Safety (ASIL B) features and analysis report
- Part of the TRAVEO™ II body MCU portfolio with a wide range of applications and a high level of software re-use

Key features

- Arm® Cortex®-M4 Single CPU
- Up to 160 MHz operation
- Up to 4 MB Flash, 128KB Work Flash, 512 KB SRAM
- Dual-bank Flash to support true FOTA
- Timers: Up to 12 ch motor control, 63 ch 16-bit timer/counter/pulse-width modulation (TCPWM) and 8ch 32-bit TCPWM
- AD Converter: Up to 64 ch, 12-bit with successive approximation ADC (SAR ADC) units
- Cortex®-M0+ and crypto engine to support EVITA high level HSM
- eFuse for secure life cycle stage management
- Connectivity: 4 ch CXPI controller, 8 ch CAN-FD, 8 ch SCB, 12 ch LIN-UART
- 4 ch CXPI controller (CYT2BL/2B9)
- ASIL B support (FMEDA)
- Package: LQFP-64, -80, -100, -144, -176

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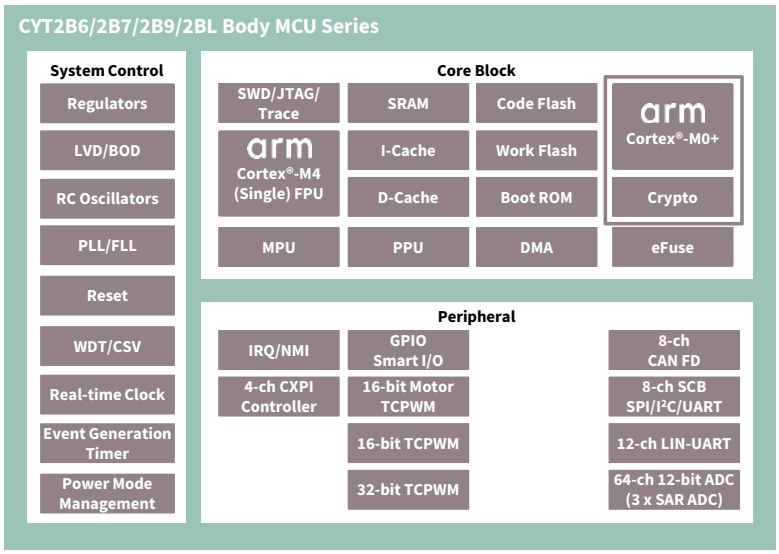
Block diagram



*CXPI is CYT2B9/2BL only

Software and tools

Infineon:

- Autosar MCAL, STL, FEE
- HSM Performance Library

3rd parties that support TVII:

- IDEs:
  - Green Hills Multi
  - IAR Embedded Workbench
- Debug hardware:
  - GHS SuperTrace Probe
  - IAR I-jet, Lauterbach

Evaluation boards:

- CYTVII-B-E-BB
- CYTVII-B-E-100-SO
- CYTVII-B-E-176-SO
- CYTVII-B-E-1M-176-CPU
- CYTVII-B-E-2M-176-CPU

Product overview – key derivatives

Product Name	CPU Freq. (MHz)	Power Supply (V)	Flash (Code+Work)	RAM	12bit ADC(ch)	CAN FD (ch)	SCB (ch)	LIN (ch)	CXPI (ch)	Security	Package
CYT2B63CA	80	2.7 to 5.5	512+64	64	22	3	6	5	-	eSHE&HSM	LQFP-64
CYT2B64CA					28	4	6	5	-		LQFP-80
CYT2B65CA					32	4	6	5	-		LQFP-100
CYT2B73CA	160	2.7 to 5.5	1088+96	128	27	5	7	6	-	eSHE&HSM	LQFP-64
CYT2B74CA					34	6	8	7	-		LQFP-80
CYT2B75CA					39	6	8	7	-		LQFP-100
CYT2B77CA					54	6	8	8	-		LQFP-144
CYT2B78CA					64	6	8	8	-		LQFP-176
CYT2B93CA	160	2.7 to 5.5	2112+128	256	27	5	7	7	2	eSHE&HSM	LQFP-64
CYT2B94CA					34	7	8	9	3		LQFP-80
CYT2B95CA					39	8	8	9	4		LQFP-100
CYT2B97CA					54	8	8	12	4		LQFP-144
CYT2B98CA					64	8	8	12	4		LQFP-176
CYT2BL3CA	160	2.7 to 5.5	4160+128	512	27	5	7	7	2	eSHE&HSM	LQFP-64
CYT2BL4CA					34	7	8	9	3		LQFP-80
CYT2BL5CA					39	8	8	9	4		LQFP-100
CYT2BL7CA					54	8	8	12	4		LQFP-144
CYT2BL8CA					64	8	8	12	4		LQFP-176

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