

## 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

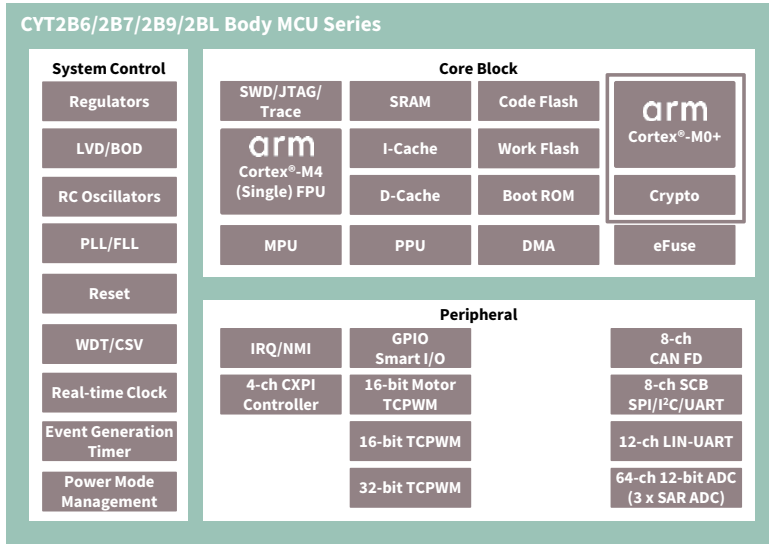
### Key features

- > 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

3<sup>rd</sup> 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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