TRAVEO™ T2G CYT2B6/CYT2B7/CYT2B9/CYT2BL

High performance Body and Driver information Microcontroller

Infineon releases its second generation TRAVEO™ microcontroller in embedded flash 40 nm technology. It comes back with an increase in performance, memory sizes, connectivity and more scalability to address the new automotive trends and challenges. This family has more than 80 products to provide the most scalable portfolio of safety microcontroller. In terms of performance, the middle end product CYT2B offers single core Cortex®-M4F running up to 160 MHz, up to 4 Mbytes embedded flash and up to 512 Kbytes embedded RAM, and consuming below 127 mA in Active mode and 35 uA in Deepsleep mode with 64 KB RAM retention. Its mirrored embedded flash bank offers A/B swap capabilities.

Safety is the core know-how of Infineon, and all products provide safety mechanism (including MBIST, ECC Flash/RAM, CRC) to ensure a safety platform supporting ASIL-B ISO 26262. State-of-the-art security with Secure Boot support by a dedicated ARM® Cortex®-M0+ core and security hardware to accelerate cryptographic functions.

 In terms of security, this product has an HSM compliant eVita full, ensuring the implementation of future proofed security measure. On top of this, it offers extensive connectivity with 8 CAN FD, 12 LINs.

The TRAVEO™ CYT2B family features a dedicated best-in-class standby mode controller, with its own voltage domain to, not only support low power modes, but also to perform certain operations such as analog measurements, CAN and LIN wakeup, RTC, SRAM retention and basic processing while the rest of microcontroller is in standby.

Key features

– Single ARM® Cortex®-M4F ™ running up to 160 MHz delivering 200 DMIPS
– Up to 4 MB flash and up to 512 KB SRAM
– Operating voltage 2.7 V to 5.5 V
– Up to 8 CAN FD channels
– Up to 12 LIN channels
– Up to 4 CXPI channels
– ISO 26262 ASIL-B support
– ISO21434 ready
– eVita Full and ARM® Cortex®-M0+ for HSM security
– Low power consumption
– AUTOSAR 4.2 support
– 125°C temperature support

Key benefits

– Best-in-class performance enabling ASIL-B designs
– Backward compatibility with CYT3B/CYT4B family
– A/B swap software update over the air support
– Best-in-class power consumption

Key applications

– Door control system
– Thermal Management system
– Lighting system
– Car access
– Power distribution
– Wireless charger
– Cockpit domain control subsystem

Block diagram
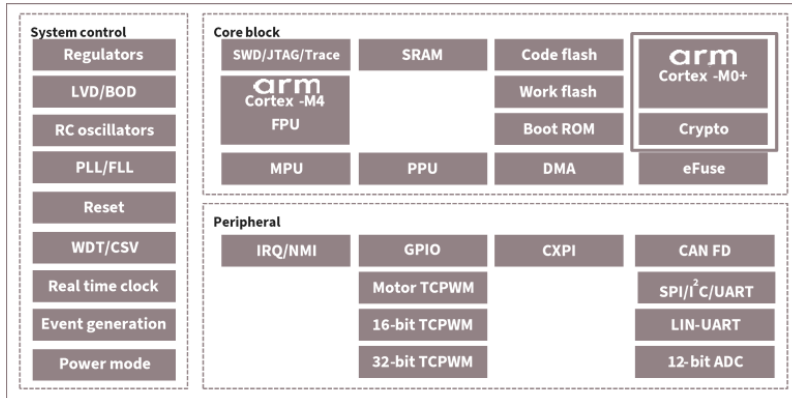
Product table

Type	CPU Freq (MHz)	Arm® Cortex-M4	Code Flash	RAM	CAN FD	Package	Ordering code
CYT2B63BADQ0AZEGS CYT2B63CADQ0AZEGS CYT2B64CADQ0AZEGS CYT2B65BADQ0AZSGS	80	Single	512 KB	64 KB	Up to 4 ch	LQFP 64 LQFP 80 LQFP 100	Active and preferred
CYT2B73CADQ0AZSGS CYT2B74CADQ0AZEGS CYT2B75CADQ0AZEGS CYT2B77CADQ0AZEGS CYT2B78CADQ0AZEGS	160		1 MB	128 KB	Up to 6 ch	LQFP 64 LQFP 80 LQFP 100 LQFP 144 LQFP 176	Active and preferred
CYT2B93CACQ0AZEGS CYT2B94CACQ0AZEGS CYT2B95CACQ0AZEGS CYT2B97CACQ0AZEGS CYT2B98CACQ0AZEGS			2 MB	256 KB	Up to 8 ch		Active and preferred
CYT2BL3CAAQ0AZEGS CYT2BL4CAAQ0AZEGS CYT2BL5CAAQ0AZEGS CYT2BL7CAAQ0AZEGS CYT2BL8CAAQ1AZEGS			4 MB	512 KB	Up to 8 ch		Active and preferred

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