

Spoločnosť Zilog (vlastne už len značka patriaca [pod IXIS](#)) vydala vlastnú radu Cortex-M3 mikrokontrolérov. Zatiaľ sú v ponuke traja zástupcovia:

- Z32F064
- Z32F128
- Z32F384

Jednotlivé MCU sa líšia veľkosťou pamäte a vybavenosťou periférií

Vlastnosti - Z32F064

- High performance low-power Cortex-M3 core
- 64 KB code Flash memory with cache function
- 8 KB SRAM
- 3-Phase PWM with ADC triggering function
- 1.5 Msps high-speed ADC with sequential conversion function
- Watchdog timer
- Six general purpose timers
- Periodic, One-shot, PWM, Capture mode
- XTAL OSC fail monitoring
- External communication ports: 2 UARTs, 1 I²C, 1 SPI
- Debug and emergency stop function
- Industrial grade operating temperature (-40° to +85°)
- Package: LQFP-32/LQFP-48

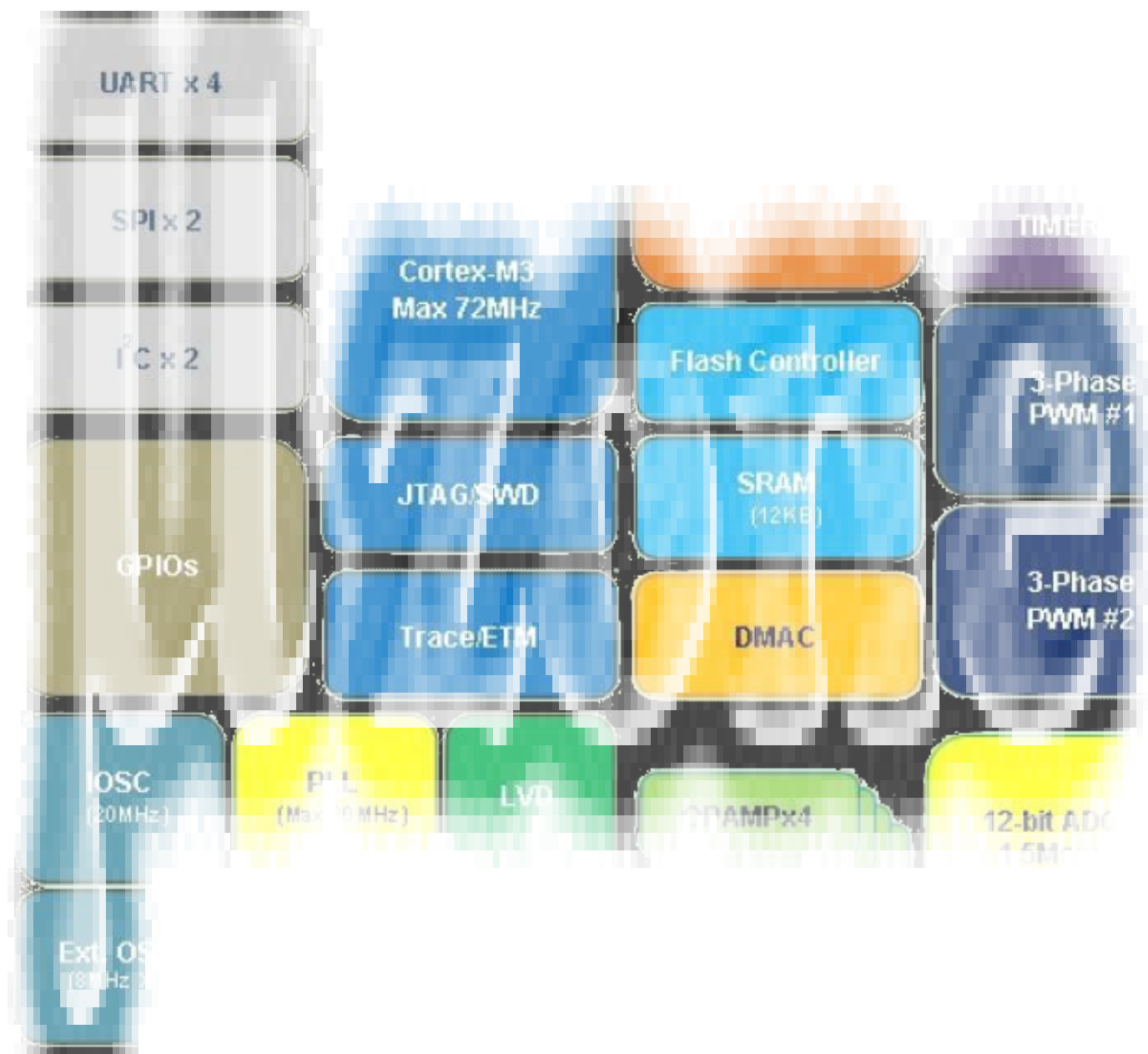
Blokové zapojenie - Z32F064



Vlastnosti - Z32F128

- High performance low-power Cortex-M3 core
- 128 KB code Flash memory with cache function
- 12 KB SRAM
- 3-phase motor PWM with ADC triggering function (two channels)
- 1.5 Msps high-speed ADC with burst conversion function (two or three units with 16 channel input)
- Built-in Programmable Gain Amplifier (PGA) for ADC inputs
- Built-in analog comparator
- System fail-safe function by clock monitoring
- XTAL OSC fail monitoring
- Precision internal oscillator clock (20 MHz $\pm 3\%$)
- Watchdog timer
- Six general purpose timers

Blokové zapojenie - Z32F128

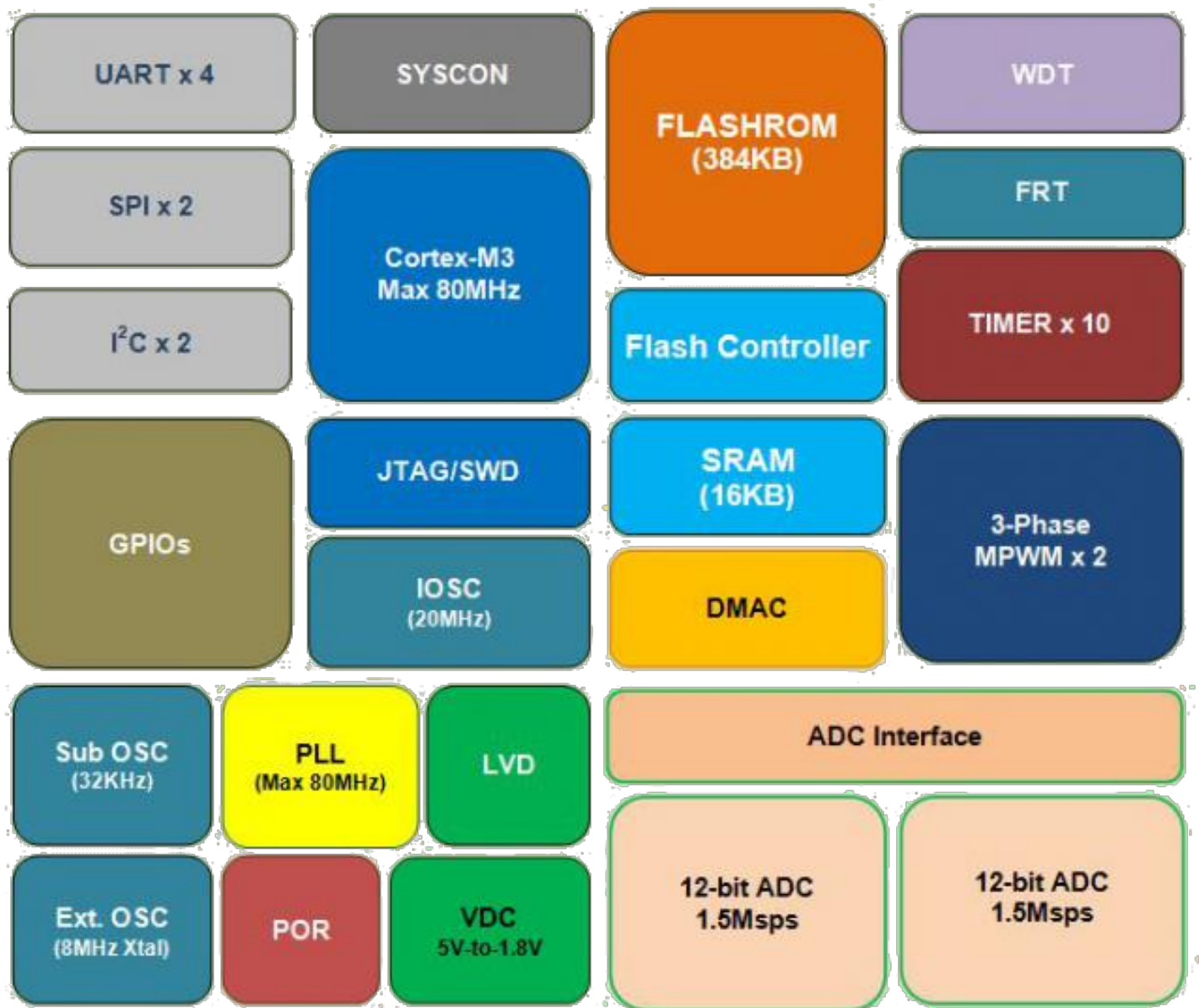


Vlastnosti - Z32F384

- High performance low-power Cortex-M3 core
- 384 KB code Flash memory with cache function
- 16 KB SRAM
- 3-Phase PWM with ADC triggering function (two channels)
- 1.5 Msps high-speed ADC with sequential conversion
- System fail-safe function by clock monitoring
- Internal ring oscillator (1 MHz ± 50%)
- Internal oscillator clock (20 MHz ± 3%)
- External crystal oscillator: 4-10 MHz

- External sub oscillator: 32 kHz
- Watchdog timer
- Package: LQFP-100 (0.5mm pitch)

Blokové zapojenie - Z32F384



Vývojové nástroje

Výrobca ponúka eval kity ku každému MCU.

Tvorbu firmware podporuje (podľa manuálov ku kitom) [Keil-ovský MDK](#) a [IAR Embedded Workbench for ARM](#), ovšem tí zatiaľ na stránkach nič také neuvádzajú.

Cena (podľa [Future Electronic](#) pre 01.02.2016)

Z32F06410AES (LQFP-48): 2.14 USD @250 pcs

Z32F06410AKS (LQFP-32): 2.- USD @160 pcs

Z32F12811ARS (LQFP-64): 3.10 USD @160 pcs

Z32F12811ATS (LQFP-80): 3.56 USD @119 pcs

Z32F38412ALS (LQFP-100): 4.- USD @90 pcs

Z32F38412ATS (LQFP-80): 4.31 USD @119 pcs

Kity:

Z32F0640100KITG: 59.95 USD

Z32F1280100KITG: 59.95 USD

Z32F3840100KITG: 59.95 USD

Odkazy

Z32F064 MCU Product Specification

Z32F128 MCU Product Specification

Z32F384 MCU Product Specification