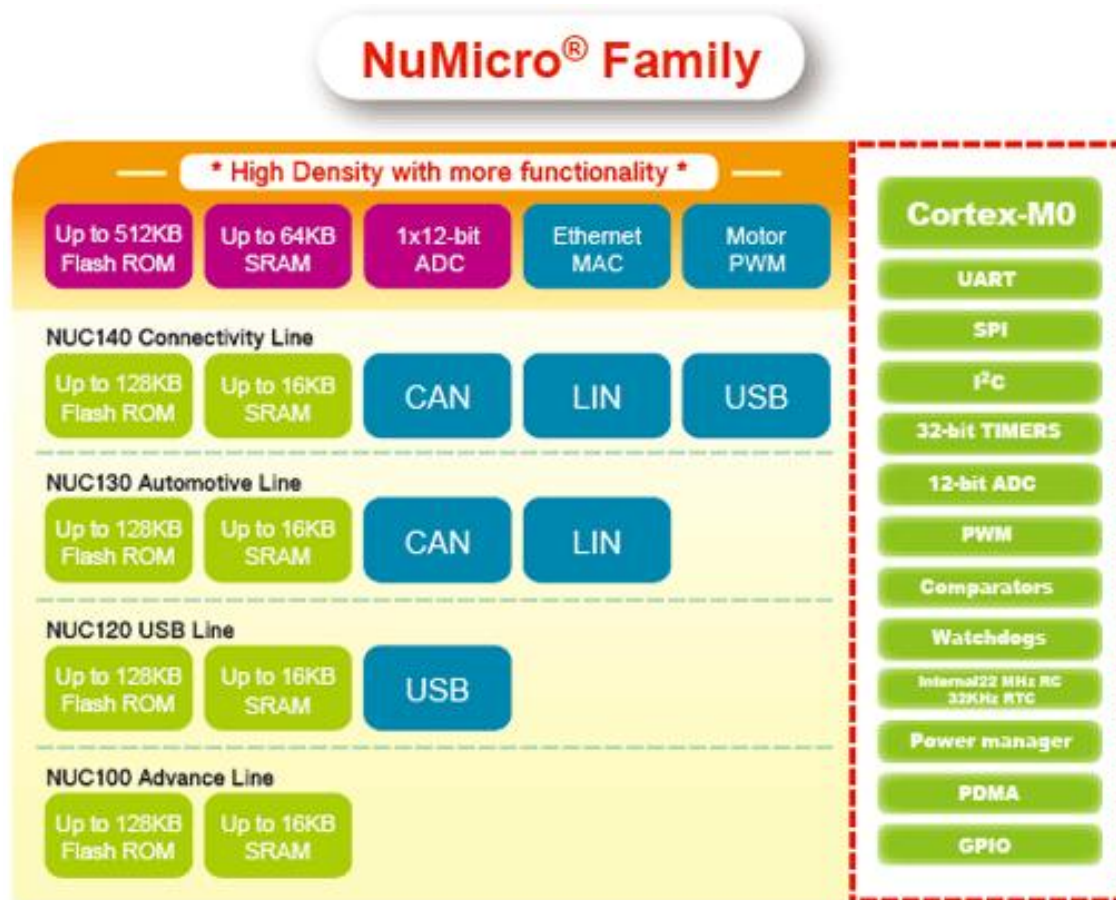


Nuvoton Technology Corporation predstavil novú produktovú líniu - 32-bitovú MCU rodinu **NuMicro®** s jadrom ARM® Cortex™-M0.

Rodina NuMicro® obsahuje rôzne integrované analógové a periférie, a vysokorýchlostné komunikačné rozhrania.

Prehľad línie NuMicro®



Vlastnosti

- The ARM® Cortex™-M0 CPU
- Core runs up to 50MHz
- One 24-bit system timer
- Low power sleep mode supports
- Single-cycle 32-bit hardware multiplier
- NVIC for the 32 interrupt inputs, each with 4-levels of priority
- Serial Wire Debug
- Widely operating voltage range from 2.5V to 5.5V
- Flash EPROM Memory
 - 32K/64K/128K bytes Flash EPROM for program code.
 - 4kB flash for ISP loader
 - Support ISP/IAP program code update
 - 512 byte page erase for flash
 - Configurable data flash address and size for 128kB system, fixed 4kB data flash for the 32kB and 64kB system.
 - Support 2 wire ICP update from ICE interface
 - Support fast parallel programming mode by external programmer.
- SRAM Memory
 - 4K/8K/16k bytes embedded SRAM.
 - Support PDMA mode
- PDMA (Peripheral DMA)
 - Support 9 channels PDMA for automatic data transfer between SRAM and peripherals.

- Clock Control
 - Flexible selection for different applications.
 - Build-in 22MHz OSC (Trimmed to 1%) for system operation, and low power 10KHz OSC for watchdog and wakeup sleep operation.
 - Support one PLL, up to 50MHz, for high performance system operation.
 - External 12MHz crystal input for USB and precise timing operating mode.
 - External 32 kHz crystal input for RTC function and low power system operation.
- GPIO
 - Four I/O modes:
 - Quasi bi-direction
 - Push-Pull output
 - Open-Drain output
 - Input only with high impedance -TTL/Schmitt trigger input selectable.
 - I/O pin can be configured as interrupt source with edge/level setting.
 - High driver and high sink IO mode support.
- Timers
 - 4 sets of 24-bit timer with 8-bit pre-scaler.
 - Counter auto reload.
- Watch Dog Timer
- RTC
- PWM/Capture
- UART
- SPI
- I2C
- ADC
- Analog Comparator
- Temperature sensor: One temperature sensor built-in with 1°C resolution.
- Brown-out detector: with 4 levels: 4.5V/3.8V/2.7V/2.4V, Support Brownout Interrupt and Reset option
- LDO: One LDO is built-in.
- Low Voltage Reset
- Operating Temperature: -40°C~85°C
- Packages:
 - All Green package (RoHS)
 - LQFP 100-pin / 64-pin / 48-pin

Odkazy

[ARM Cortex™-M0 NuMicro® Family Homepage](#)

[NUC100 datasheet](#)

[NUC120 datasheet](#)

[NUC130 datasheet](#)

[NUC140 datasheet](#)

Distribúcia

[vid'. Adresár](#)