

Spoločnosť NEC Electronics vydala 16 nových 16-bitových All Flash™ mikrokontrolérov s integrovaným USB 2.0 rozhraním. Ide o osem 48-pinových 78K0R/KC3-L MCU a osem 64-pinových 78K0R/KE3-L MCU.

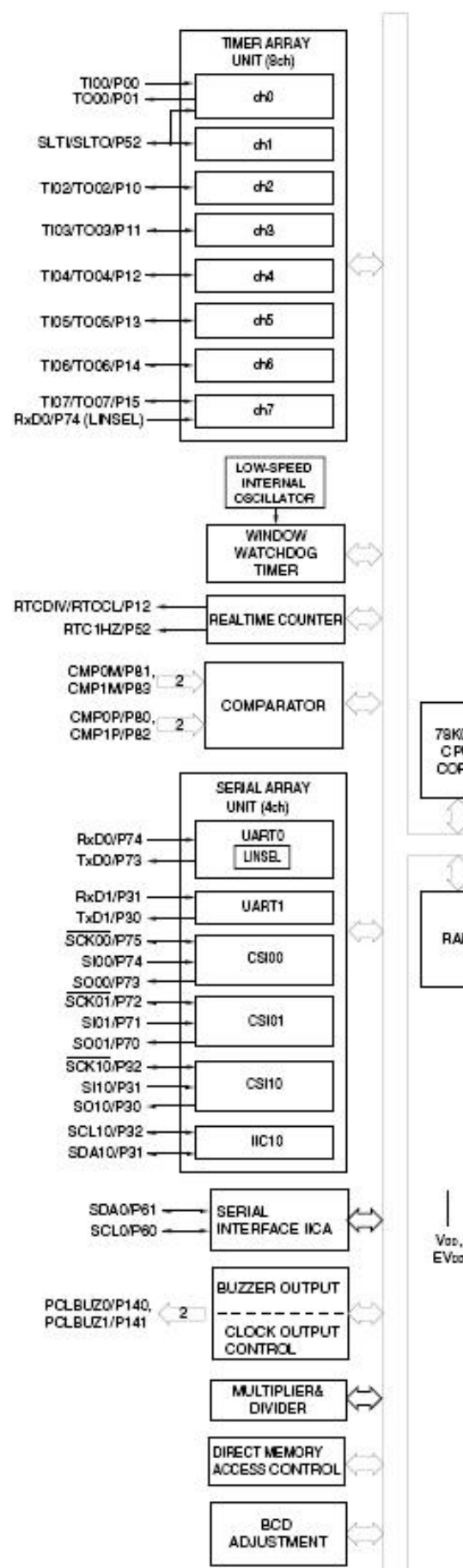
Vlastnosti

- Power supply voltage: VDD = 1.8 to 5.5 V
- Max. frequency 20 MHz
- ROM capacities 32 KB to 64 KB flash memory
- RAM capacities 1.5 KB to 3 KB
- 48-pin TQFP package (78K0R/KC3-L); 64-pin TQFP package (78K0R/KE3-L)
- Minimum instruction execution time can be changed from high speed (0.05 μ s: @ 20 MHz operation with highspeed system clock) to ultra low-speed (61 μ s: @ 32.768 kHz operation with subsystem clock)
- General-purpose register: 8 bits x 32 registers (8 bits x 8 registers x 4 banks)
- On-chip internal high-speed oscillation clocks
 - 20 MHz Internal high-speed oscillation clock: 20 MHz $\pm$ 1 % (target)
 - 8 MHz Internal high-speed oscillation clock: 8 MHz $\pm$ 1 % (target)
 - 1 MHz Internal high-speed oscillation clock: 1 MHz $\pm$ 5 %
- On-chip single-power-supply flash memory (with prohibition of chip erase/block erase/writing function)
- Self-programming (with boot swap function/flash shield window function)
- On-chip debug function
- On-chip power-on-clear (POC) circuit and low-voltage detector (LVI)
- On-chip watchdog timer (operable with the dedicated internal low-speed oscillation clock)
- On-chip multiplier/divider (16 bits x 16 bits, 32 bits / 32 bits)
- On-chip key interrupt function
- On-chip clock output/buzzer output controller
- On-chip BCD adjustment
- I/O ports: 37(44-pin prooduct), 41 (48-pin product) (N-ch open-drain :2 (only 48-pin product))
- Timer: 10 channels
 - 16-bit timer: 8 channels
 - Watchdog timer: 1 channel
 - Real-time counter: 1 channel
- On-chip comparator/programmable gain amplifier function
- Serial interface
 - CSI: 2 channels/UART: 1 channel
 - CSI: 1 channel/UART: 1 channel/simplified I2C: 1 channel
 - CSI: 1 channel/UART: 1 channel/simplified I2C: 1 channel
 - UART (LIN-bus supported): 1 channel - I2C: 1 channel
- 10-bit resolution A/D converter (AVREF = 1.8 to 5.5 V): 10 to 12 channels
- Operating ambient temperature: TA = -40 to +85°C

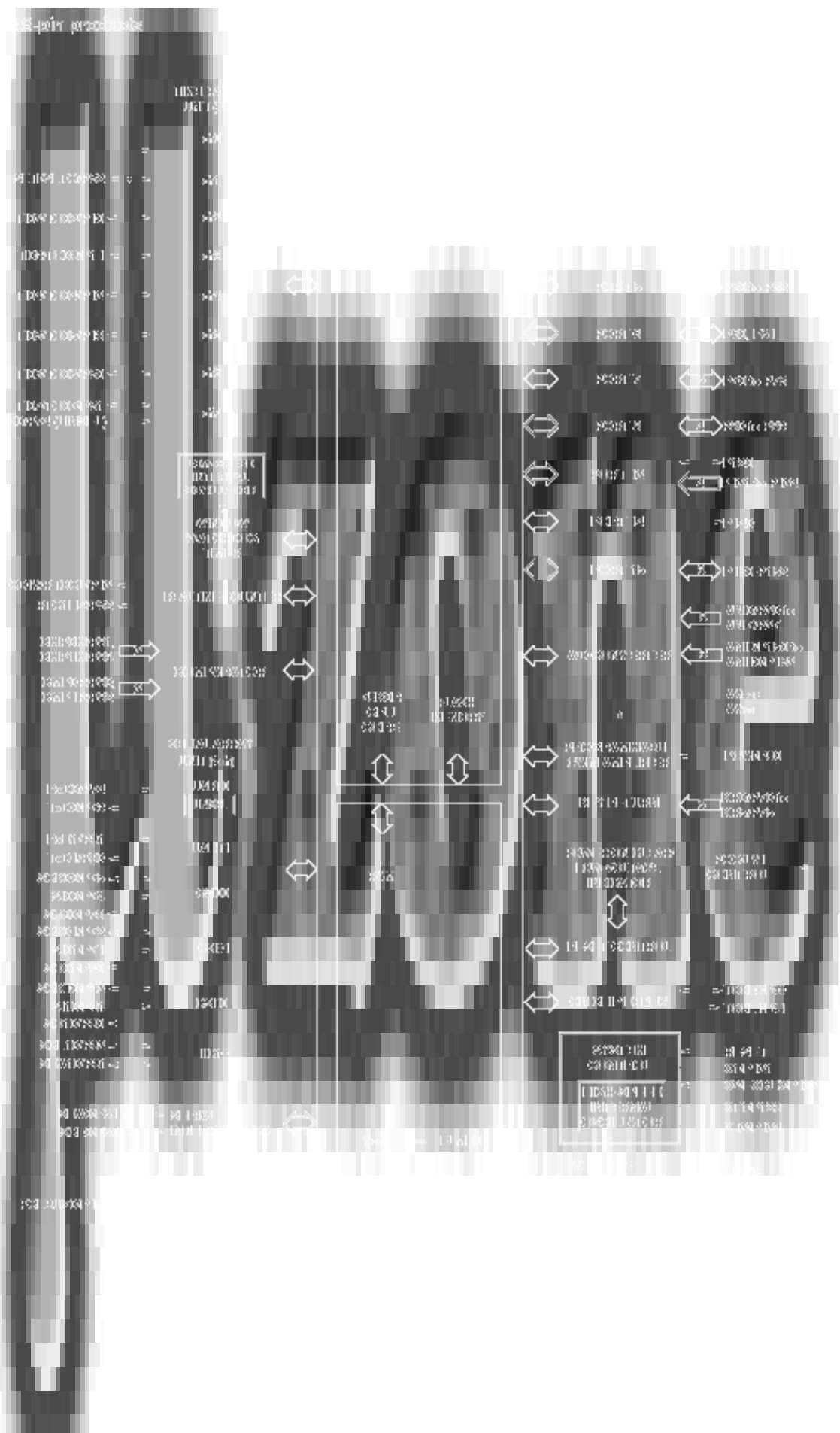
Blokové zapojenie

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78K0R/KE3-L



78K0R/KE3-L



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Distribúcia

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