

Spoločnosť Microchip Technology Inc. predstavila novú rodinu MCU - PIC24FJ256DA.

Zástupcovia tejto rodiny sú v spojení s displejom ideálne pre tvorbu grafických rozhraní.

Z ich kremíku sa dá na tento účel plne využiť grafický radič (GFX), prispôsobený pre priame pripojenie LCD displeja, pridaná RAM až na 24/96Kbytov, USB OTG rozhranie, RTCC a ďalšie periférie.

Vlastnosti



- Graphics Controller Features:

- 3x Graphics Hardware Acceleration Units
- Color Look-up Table (CLUT) with Maximum of 256 Entries
- Direct Interface to Monochrome, C-STN, TFT, OLED
- Resolution up to 640x480 @30Hz, 16 bpp, or 480x272 @60Hz, 16 bpp

- Universal Serial Bus Features:

- USB v2.0 On-The-Go (OTG) Compliant
- Dual Role Capable - Can act as either Host or Peripheral
- Low-Speed (1.5 Mbps) and Full-Speed (12 Mbps) USB Operation in Host mode
- Full-Speed USB Operation in Device mode

- Analog Features:

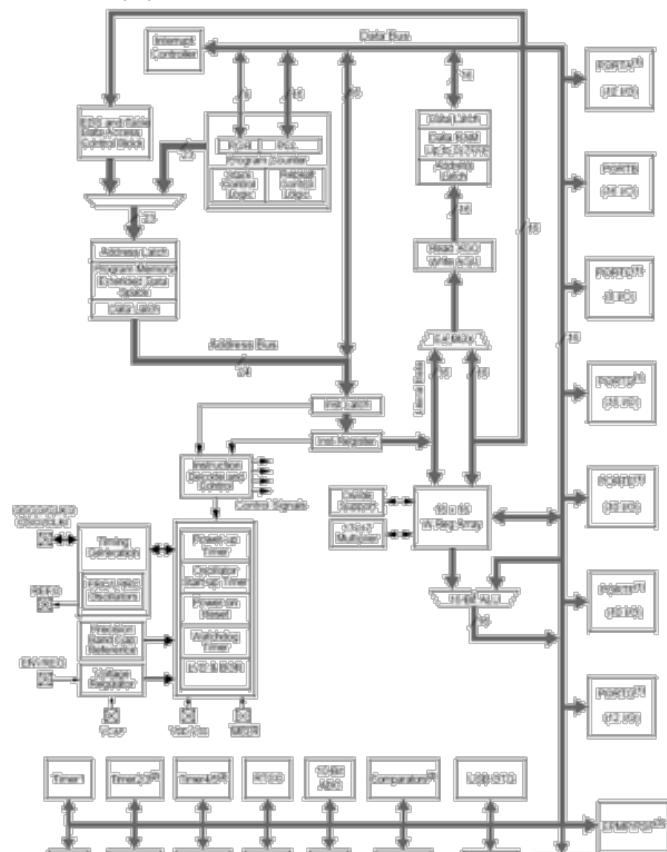
- Up to 24x, Capacitive touch sensing
- Up to 24x, 10-Bit, ADC at 500 ksps:
- 3x Analog Comparators with Programmable Input/Output Configuration

- Power Management:

- On-Chip Voltage Regulator of 1.8V
- Switch between Clock Sources in Real Time
- Idle, Sleep and Doze modes with Fast Wake-up and Two-Speed Start-up
- Run Mode: 800 uA/MIPS, 3.3V Typical
- Sleep mode Current Down to 20 uA, 3.3V Typical

- Standby Current with 32 kHz Oscillator: 22 uA, 3.3V Typical

Blokové zapojenie



Note: 1) Not all pins or features are implemented on all device pinout configurations. See Table 1-1 for specific implementations by pin count.
2) These peripheral pins are only accessible through non-volatile pins.
3) Not available on all pin devices (PIC24FJ256DA210).

Cena

PIC24FJ256DA210-I/BG, v púzde XBGA je od 8,09 USD pri kusových odberoch

PIC24FJ256DA210-I/PT, v púzde TQFP je od 7,71 USD pri kusových odberoch

Odkazy

[PIC24FJ256DA210 Homepage](#)

[PIC24FJ256DA210 Family Data Sheet](#)

Prehľad zástupcov rodiny PIC24FJ..

PIC24FJ Device	Pins	Program Memory (bytes)	SRAM (bytes)	Remappable Peripherals					I ² C™	10-Bit A/D (ch)	Comparators	CTMU	
				Remappable Pins	16-Bit Timers	IC/OC PWM	UART w/IrDA®	SPI					
PIC24FJ128DA106	64	128K	24K	29	5	9/9	4	3	3	16	3	Y	
PIC24FJ256DA106	64	256K	24K	29	5	9/9	4	3	3	16	3	Y	
PIC24FJ128DA110	100/121	128K	24K	44	5	9/9	4	3	3	24	3	Y	
PIC24FJ256DA110	100/121	256K	24K	44	5	9/9	4	3	3	24	3	Y	
PIC24FJ128DA206	64	128K	96K	29	5	9/9	4	3	3	16	3	Y	
PIC24FJ256DA206	64	256K	96K	29	5	9/9	4	3	3	16	3	Y	
PIC24FJ128DA210	100/121	128K	96K	44	5	9/9	4	3	3	24	3	Y	
PIC24FJ256DA210	100/121	256K	96K	44	5	9/9	4	3	3	24	3	Y	

Distribúcia
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