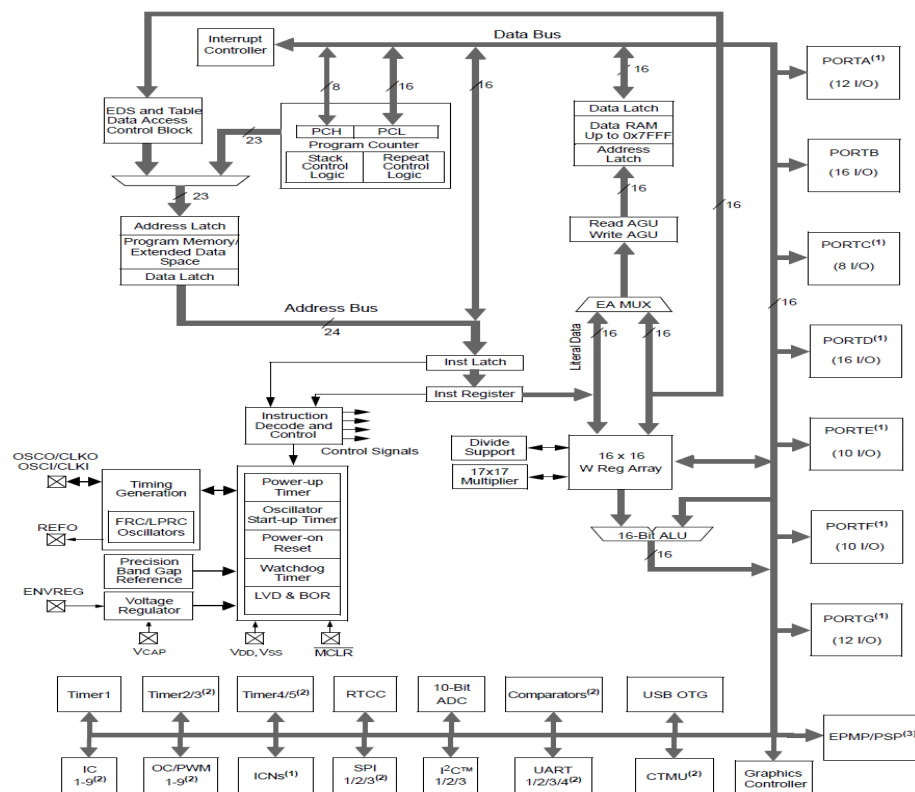




# PIC24FJ256DA210 FAMILY, 64-100-Pin, 16-Bit Flash Microcontrollers with Graphics Controller and USB On-The-Go (OTG)

## General Description:

PIC24FJ256DA210 FAMILY, 64/100-Pin, 16-Bit Flash Microcontrollers with Graphics Controller and USB On-The-Go (OTG). Ideal for Graphical interface applications that can benefit from the integrated Graphics, 96K byte RAM for frame buffer, mTouch, USB and other peripherals.



## Key Features:

- 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

## Applications:

- USB Flash drive with Embedded Host
- Noise Immunity Conduction in CTMU
- Graphical interface
- Mass storage device
- Usb Keyboard with Embedded Host E

## Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
PIC24FJ256DA210-I/BG	1823274	73R8658	16-bit, 256KB Flash, 96K RAM, USB, Graphics 121 XBGA 10x10x1.20mm TRAY-121 BGA
PIC24FJ128DA210-I/BG	1823275	73R8634	16-bit, 128KB Flash, 96K RAM, USB, Graphics 121 XBGA 10x10x1.20mm TRAY-121 BGA
PIC24FJ256DA110-I/BG	1823276	73R8650	16-bit, 256KB Flash, 24K RAM, USB, Graphics 121 XBGA 10x10x1.20mm TRAY -121 BGA
PIC24FJ128DA110-I/BG	1823277	73R8626	16-bit, 128KB Flash, 24K RAM, USB, Graphics 121 XBGA 10x10x1.20mm TRAY-121 BGA
PIC24FJ256GB210-I/BG	1823278	73R8666	16-bit, 256KB Flash, 96K RAM, USB 121 XBGA 10x10x1.20mm TRAY- Without Graphics controller

PIC24FJ128DA210-I/PT	1823282	73R8635	16-bit, 128KB Flash, 96K RAM, USB, Graphics 100 TQFP 12x12x1mm TRAY
PIC24FJ256DA110-I/PT	1823283	73R8651	16-bit, 256KB Flash, 24K RAM, USB, Graphics 100 TQFP 12x12x1mm TRAY
PIC24FJ128DA110-I/PT	1823284	73R8627	16-bit, 128KB Flash, 24K RAM, USB, Graphics 100 TQFP 12x12x1mm TRAY
PIC24FJ256GB210-I/PT	1823285	73R8667	16-bit, 256KB Flash, 96K RAM, USB 100 TQFP 12x12x1mm TRAY Without Graphics controller
PIC24FJ128GB210-I/PT	1823286	73R8643	16-bit, 128KB Flash, 96K RAM, USB 100 TQFP 12x12x1mm TRAY Without Graphics controller
PIC24FJ128DA206-I/PT	1823287	73R8631	16-bit, 128KB Flash, 96K RAM, USB, Graphics 64 TQFP 10x10x1mm TRAY
PIC24FJ256DA106-I/PT	1823288	73R8647	16-bit, 256KB Flash, 24K RAM, USB, Graphics 64 TQFP 10x10x1mm TRAY
PIC24FJ128DA106-I/PT	1823289	73R8623	16-bit, 128KB Flash, 24K RAM, USB, Graphics 64 TQFP 10x10x1mm TRAY
PIC24FJ256DA206-I/PT	1823149	73R8655	16-bit, 256KB Flash, 96K RAM, USB, Graphics 64 TQFP 10x10x1mm TRAY
PIC24FJ256DA210-I/PT	1823150	73R8659	6-bit, 256KB Flash, 96K RAM, USB, Graphics 100 TQFP 12x12x1mm TRAY
PIC24FJ256GB206-I/PT	1823290	73R8663	16-bit, 256KB Flash, 96K RAM, USB 64 TQFP 10x10x1mm TRAY
PIC24FJ128GB206-I/PT	1823291	73R8639	16-bit, 128KB Flash, 96K RAM, USB 64 TQFP 10x10x1mm TRAY
PIC24FJ128GB210-I/BG	1823281	73R8642	16-bit, 128KB Flash, 96K RAM, USB 121 XBGA 10x10x1.20mm TRAY