PIC18 J-series
High Performance 8-bit MCUs for Cost-Sensitive Applications



PIC18 J-series offers the right level of performance and integration at the right price for complex designs

- Breakthrough in Price-Performance for 8-bit MCUs
- PIC18 J-series provides up to 12 MIPS at 3V
- Easy connection to Ethernet, USB, LCD displays, and ZigBee™ RF
- Capture/Compare/PWM, timers, UART, I²C™ and SPI
- Self programming Flash with 1k-10k endurance
- 5V tolerant digital I/O
- Aggressive 10k pricing on MicrochipDirect
- Don't pay extra for premium features you don't need

Easy to Evaluate & Program PIC18 J-series Devices

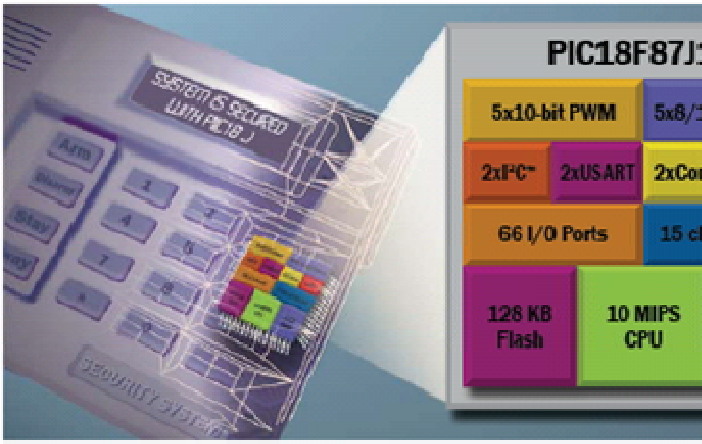


Purchase a High Pin Count Explorer Board (DM183022) and J-series Plug-in Module (PIM) from Microchip Direct using coupon code **PIC18JPIM** to receive the PIM for only $5! Plug-in Modules for each J-series family (MA180011 – MA180020).



If you have a PICkit2 Programmer (PG164120), use the PICkit 2 PIC18 J-series 64/80 Pin Demo Board (DM164120-5) featuring the PIC18F87J10.

PIC18 J-series devices are supported by Microchip's other development tool suite including MPLAB ICD 2, and MPLAB REAL ICE for debugging and programming.



Get Started with your PIC18 J-series Design with Free & Low Cost Development Tools

4 Free MPLAB IDE
4 Free evaluation C18 compiler
4 Low cost PICDEM High Pin Count Explorer Demo Board (DM183022)
4 Discounted J-series Plug-in Module with coupon code **PIC18JPIM**
4**NEW** Web Seminar: Introduction to PIC18 J-series Microcontrollers

PIC18 J-series Devices Available Today:

PIC18F87J11
64 – 128 KB Flash
64/80 Pins
12 MIPS
General Purpose Family
MA180020 Plug-In Module

PIC18F97J60
64 – 128 KB Flash
64/80/100 Pins
10 MIPS
10Base-T Ethernet Controller
Ethernet Design Center
PICDEM.net 2 Dev Board

PIC18F85J11
8 – 32 KB Flash
64/80 Pins
10 MIPS
General Purpose Family
MA180018 Plug-In Module

PIC18F87J50
32 – 128 KB Flash
64/80 Pins
12 MIPS
Full Speed USB
USB Design Center

PIC18F87J10
32 – 128 KB Flash
64/80 Pins
10 MIPS
General Purpose Family
MA180015 Plug-In Module

PIC18F85J90
8 – 32 KB Flash
64/80 Pins
10 MIPS
Segmented LCD
LCD Design Center
PICDEM LCD 2 Demo Board

PIC18F45J10
16 – 32 KB Flash
28/40 Pins
10 MIPS
General Purpose Family
Plug-In Modules:
MA180011 PIC18F25J10, PIC18F24J10
MA180012 PIC18LF25J10, PIC18LF24J10
MA180013 PIC18F45J10, PIC18F44J10
MA180014 PIC18LF45J10, PIC18LF44J10

Additional Informa

NEW Application Note Emul
EEPROM

Don't pay for level translators
using multiple power-supply

Tips 'n Tricks for 3V De

Migrating from PIC18F to PIC1
devices

Design Centers

3V Design Center & News

Ethernet Design Cen

USB Design Cente

LCD Design Cente

ZigBee & MiWi Design C

Which J-series Plug-in Module do I need to work with the HPC Explorer Board?

Purchase a High Pin Count Explorer Board (DM183022) and J-series Plug-in Module (PIM) from Microchip Direct using coupon code **PIC18JPIM** to receive the PIM for only $5!

PIM Part Number	To evaluate these devices:
MA180011	PIC18F25J10, PIC18F24J10
MA180012	PIC18LF25J10, PIC18LF24J10 (LF means voltage regulator disabled)
MA180013	PIC18F45J10, PIC18F44J10
MA180014	PIC18LF45J10, PIC18LF44J10 (LF means voltage regulator disabled)
MA180015	PIC18F87J10, PIC18F86J15, PIC18F86J10, PIC18F85J15, PIC18F85J10, PIC18F67J10, PIC18F66J15, PIC18F66J10, PIC18F65J15, PIC18F65J10
MA180018	PIC18F85J11, PIC18F84J11, PIC18F83J11, PIC18F65J11, PIC18F64J11, PIC18F63J11
MA180020	PIC18F87J11, PIC18F86J16, PIC18F86J11, PIC18F67J11, PIC18F66J16, PIC18F66J11

How is the PIC18 J-series different from the 5V PIC18F Family?

Feature	PIC18F	PIC18 J-series
Voltage Range	2.0 to 5.5	2.0 to 3.6
Max Speed (MHz)	40	40-48
MIPS	10	10-12
Program Flash (KB)	4 - 128	8 - 128
Flash Erase Write Cycles	100K	1K - 10K
Flash Retention (min)	40 years	20 years
Self-Write	√	√
Data EEPROM	√	
EEPROM Emulation in Flash		√
5V tolerant I/O	√	√