



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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, I<sup>2</sup>C™ 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



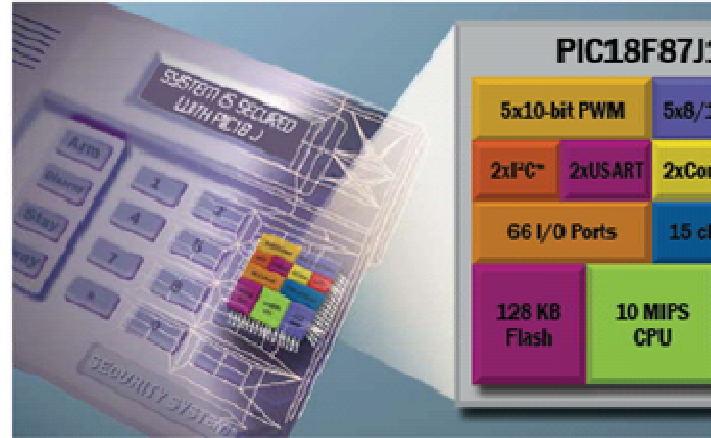
PICDEM™ HPC Explorer Board

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! 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:**

<p align="center"><b><a href="#">PIC18F87J11</a></b>          64 – 128 KB Flash          64/80 Pins          12 MIPS          General Purpose Family  <a href="#">MA180020</a> Plug-In Module</p>	<p align="center"><b><a href="#">PIC18F97J60</a></b>          64 – 128 KB Flash          64/80/100 Pins          10 MIPS  <b>10Base-T Ethernet Controller</b>  <a href="#">Ethernet Design Center</a>  <a href="#">PICDEM.net 2 Dev Board</a></p>
<p align="center"><b><a href="#">PIC18F85J11</a></b>          8 – 32 KB Flash          64/80 Pins          10 MIPS          General Purpose Family  <a href="#">MA180018</a> Plug-In Module</p>	<p align="center"><b><a href="#">PIC18F87J50</a></b>          32 – 128 KB Flash          64/80 Pins          12 MIPS  <b>Full Speed USB</b>  <a href="#">USB Design Center</a></p>
<p align="center"><b><a href="#">PIC18F87J10</a></b>          32 – 128 KB Flash          64/80 Pins          10 MIPS          General Purpose Family  <a href="#">MA180015</a> Plug-In Module</p>	<p align="center"><b><a href="#">PIC18F85J90</a></b>          8 – 32 KB Flash          64/80 Pins          10 MIPS  <b>Segmented LCD</b>  <a href="#">LCD Design Center</a>  <a href="#">PICDEM LCD 2 Demo Board</a></p>
<p align="center"><b><a href="#">PIC18F45J10</a></b>          16 – 32 KB Flash          28/40 Pins          10 MIPS          General Purpose Family          Plug-In Modules:  <a href="#">MA180011</a> PIC18F25J10, PIC18F24J10  <a href="#">MA180012</a> PIC18LF25J10, PIC18LF24J10  <a href="#">MA180013</a> PIC18F45J10, PIC18F44J10  <a href="#">MA180014</a> PIC18LF45J10, PIC18LF44J10</p>	

**Additional Information**  
**NEW** [Application Note Emulating EEPROM](#)

[Don't pay for level translators using multiple power-supplies](#)

[Tips 'n Tricks for 3V Devices](#)

[Migrating from PIC18F to PIC18 devices](#)

**Design Centers**  
[3V Design Center & New](#)

[Ethernet Design Center](#)

[USB Design Center](#)

[LCD Design Center](#)

[ZigBee & MiWi Design Center](#)

### 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:
<a href="#">MA180011</a>	PIC18F25J10, PIC18F24J10
<a href="#">MA180012</a>	PIC18LF25J10, PIC18LF24J10 (LF means voltage regulator disabled)
<a href="#">MA180013</a>	PIC18F45J10, PIC18F44J10
<a href="#">MA180014</a>	PIC18LF45J10, PIC18LF44J10 (LF means voltage regulator disabled)
<a href="#">MA180015</a>	PIC18F87J10, PIC18F86J15, PIC18F86J10, PIC18F85J15, PIC18F85J10, PIC18F67J10, PIC18F66J15, PIC18F66J10, PIC18F65J15, PIC18F65J10
<a href="#">MA180018</a>	PIC18F85J11, PIC18F84J11, PIC18F83J11, PIC18F65J11, PIC18F64J11, PIC18F63J11
<a href="#">MA180020</a>	PIC18F87J11, PIC18F86J16, PIC18F86J11, PIC18F67J11, PIC18F66J16, PIC18F66J11

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

<b>Feature</b>	<b>PIC18F</b>	<b>PIC18 J-series</b>
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	√	√