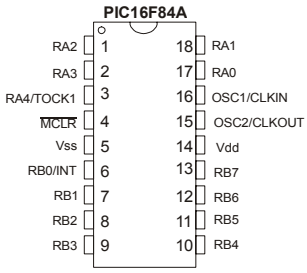
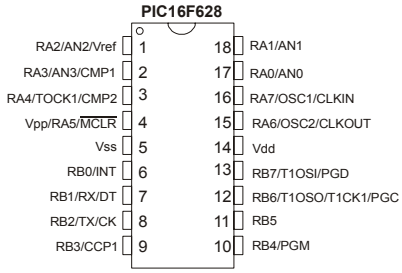
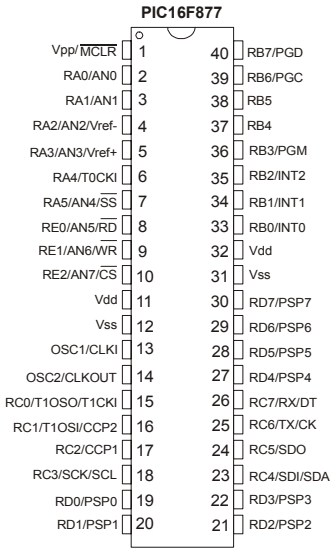
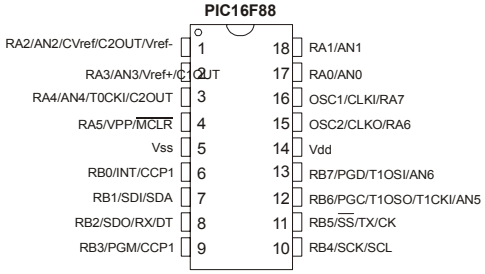
PICmicro microcontrollers

A selection of PICmicro microcontrollers for project work









All our current PICmicro courses are based on the popular PIC16F84 which is a good device for learning PICmicro programming. However once this has been mastered then having access to a wider variety of PICmicro devices will be useful for further work.

There are probably more than 100 different PICmicro microcontrollers and we have chosen to support four different flash programmable devices which provide a good mix of features. Any person or institution using PICmicros will want to choose a select few PICmicros for project work. We have chosen to support four that will provide a good compromise of features and costs.

For up to date information on these please see the Microchip web site www.microchip.com.

PIC16F84A – code HP16F84
This is probably the most popular of the PICmicro devices - even though it is actually one of the oldest flash devices available. The 16F84 has 13I/O lines and can be clocked with a simple RC circuit or an external crystal.

- 13 I/O lines
- External RC or Xtal oscillator
- 1k ROM, 68 bytes of RAM

PIC16F628 – code HP16F628
This low cost 18 pin PICmicro microcontroller is a useful device to have in your parts bin. Whilst this has no A/D inputs it does have useful comparator pins which can be used to give A/D like functions. The internal clock oscillator helps reduce external component count and facilitates project development.

- 18 pins, 16 I/O lines
- Internal comparators and voltage Reference:
- internal oscillator
- 2k ROM, 224 bytes of RAM
- 2 internal option
- internal USART

PIC16F877 – code HP16F877
This large 40 pin device is very popular for a range of hobbyist and educational projects. It is one of the largest of the 16xxx series of PICmicro microcontrollers and we recommend that users keep one or two in stock for large projects.

- 40 pins, 33 I/O lines
- 8k ROM, 368 bytes RAM
- 8 off 10 bit A/Ds, and 2 internal comparators
- built in USART, SPI and I^2C

PIC16F88 – code HP16F88 – available June 2003
This amazing device is hotly tipped to replace the 16F84 as the most popular PICmicro microcontroller used by hobbyists and education alike. With the same pin out as the 16F84 but with full A/D capability and internal clock oscillator the 16F88 will be an invaluable component.

- 18 pins, 16 I/O lines
- 4k ROM, 368 bytes RAM
- 7 off 10 bit A/Ds, and 2 internal comparators
- built in AUSART port
- 8MHz internal oscillator
- low cost device

Pin out schematics are for guidance only – see www.microchip.com for details

For prices please email or call us.

Matrix Multimedia Limited
Tel 0870 700 1831 Fax 0870 700 1832
www.matrixmultimedia.co.uk sales@matrixmultimedia.co.uk