

# MMC/SD board connections for in-circuit programming

In-circuit programmers like Microchip's ICD, ME Labs' EPIC, CCS's ICD (plus other similar programmers) require the use of the PIC's PGD,PGC,MCLR pins, as well as Vdd and Vss lines. In most cases, the target requires to be powered up. Most ICDs can work with 3v and 5v PICs.

The MMC/SD boards have these pins available to use. Shown below are the pin locations

## MMC3 or MMSD3 boards

### ICD connections to target

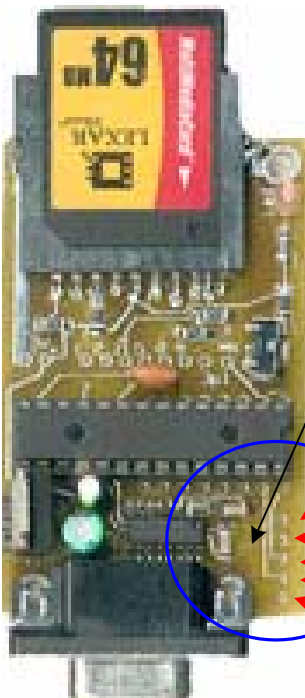
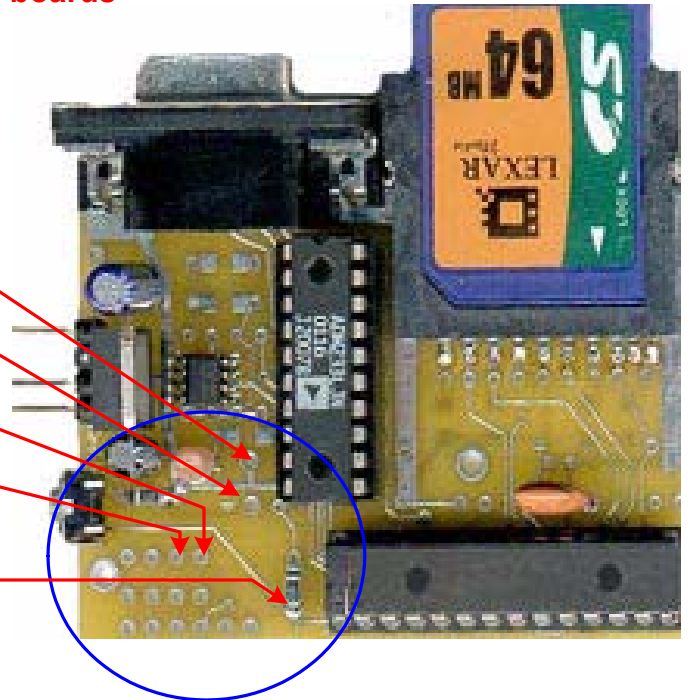
Vss (Gnd) Any GND location

Vdd (V+) Any V+ location

PGD (PortB.7) 16F876 Pin 28

PGC (PortB.6) 16F876 Pin 27

VPP (MCLR) 16F876 Pin 1



Note: The latest revision has a jumper to enable Vdd

### ICD connections to target

VPP (MCLR) 16F876 Pin 1

Vdd (3v+)

PGD (PortB.7) 16F876 Pin 28

PGC (PortB.6) 16F876 Pin 27

Vss (Gnd)