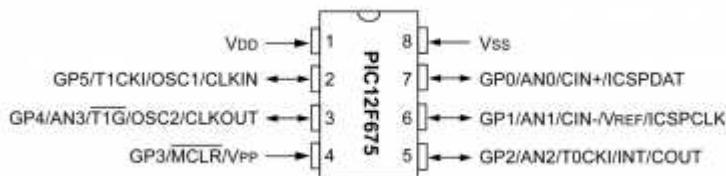


# **PIC12: General purpose I/O (GPIO)**

## GPIO on PIC12F675



- 6 inputs/outputs (GP0 – GP5)
  - 1 pin input only(GP3)
  - note the precedence of analog functions
  - Depending on which peripherals are enabled, some or all of the pins may not be available as general purpose I/O
  - optional weak pull-ups

## **Associated registry**

**REGISTER 3-2: TRISIO — GPIO TRISTATE REGISTER (ADDRESS: 85h)**

bit 7-6: **Unimplemented:** Read as '0'

bit 5-0: **TRISIO<5:0>**: General Purpose I/O Tri-State Control bit

**1** = GPIO pin configured as an input (tri-stated)

○ = GPIO pin configured as an output.

**Note:** TRISIO<3> always reads 1.

**TRISIO** – configuring the data direction: 1 = GPIO pin configured as an input (tri-stated), 0 = GPIO pin configured as an output.

### REGISTER 3-1: GPIO — GPIO REGISTER (ADDRESS: 05h)

bit 7-6: **Unimplemented:** Read as '0'

bit 5-0: **GPIO<5:0>**: General Purpose I/O pin.

1 = Port pin is >VIH

0 = Port pin is < VIL

GPIO – read / write the digital values from/to the particular pin

