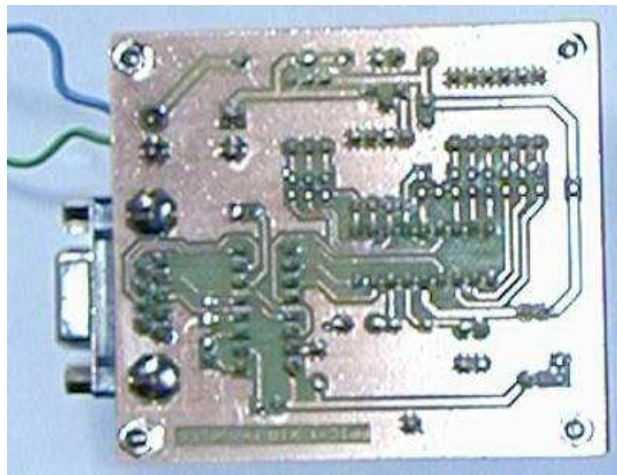


μPanel

Scelte per la realizzazione di mPanel



μPanel – moduli (I)

Hardware:

- Display fisico
- Circuiteria unità display
- Circuiteria bus
- Cavo di collegamento

μPanel – moduli (II)

Software:

- Driver IO
- Interfaccia grafica di configurazione
- Plugin
- Firmware unità display

μ Panel – display

Display semplice ed economico:

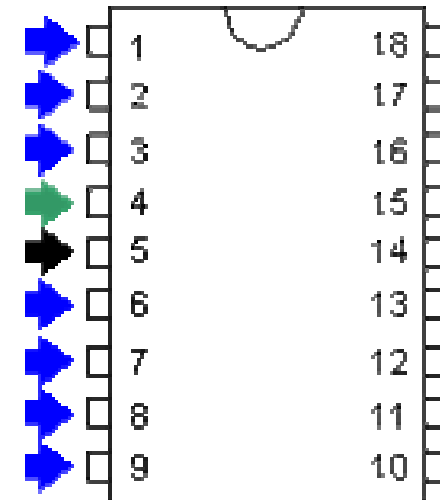
- Reset
- Clock
- Byte serializzato su 7 bit



μPanel – unità

Unità principale:

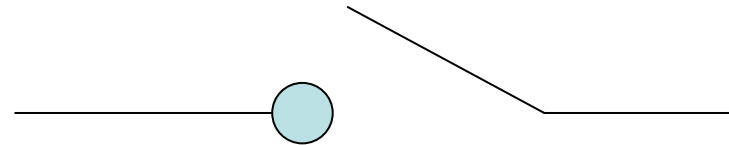
- Firmware aggiornabile
- Robusta
- Economica – Low power
- Sincrona



μPanel – bus

Bus di tipo seriale RS232

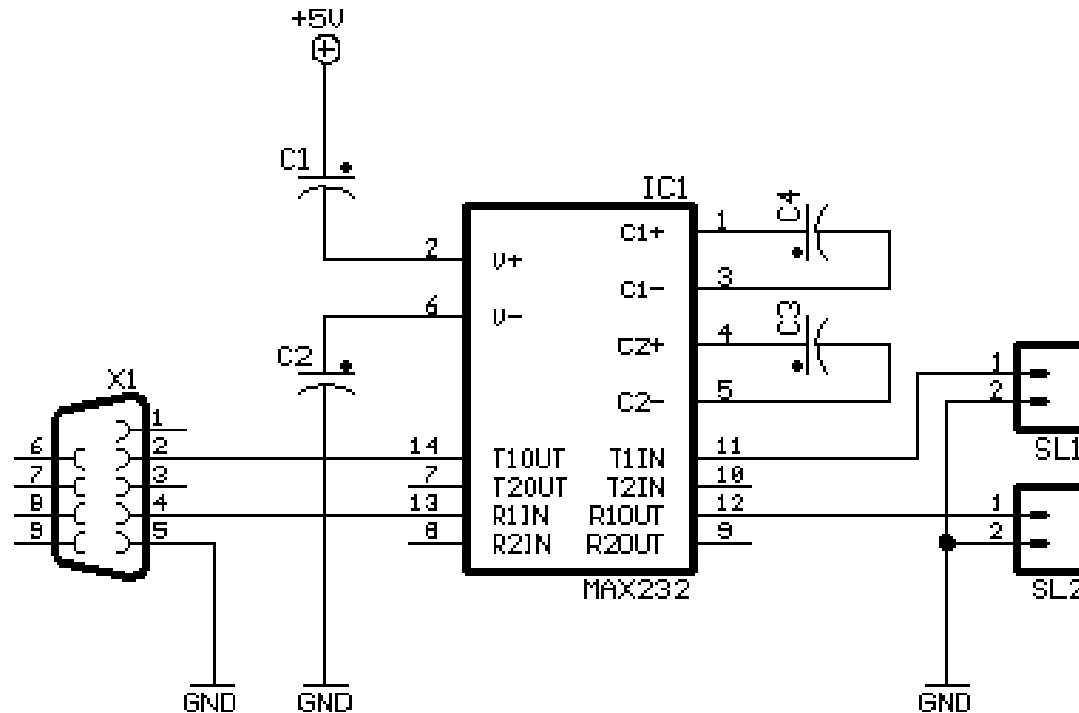
- Handshake
- Lock in-out
- Interruzione
- Pass-true



μPanel – connessione

Connessione Seriale:

- RS232
- USB
- IrDA
- Bluetooth

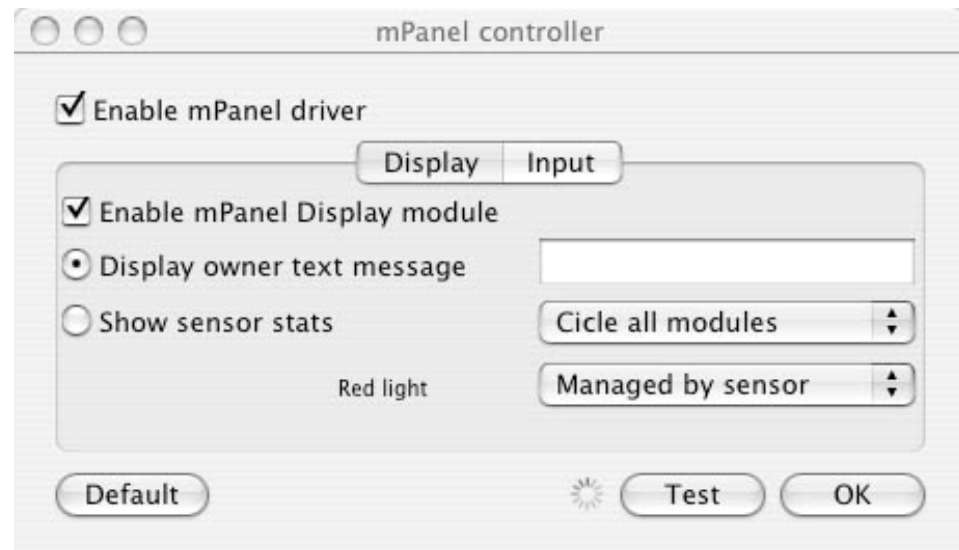


μPanel – driver

- Piattaforma: Linux, Windows, Max
- Periferica Seriale generica
- USB
- RS232 (IrDA, Bluetooth)

μ Panel – interfaccia

- Piattaforma: Linux, Windows, Max
- Trolltech Qt 4
- C++
- XML



μPanel – plugin

- Piattaforma: Linux, Windows, Max
- API
- C++
- XML



μ Panel – firmware

- Piattaforma: Risc PIC16FXX
- Sincrono
- IO Seriale
- Buffer

16F84 - 1

13 IN/OUT

Clock max 20MHz

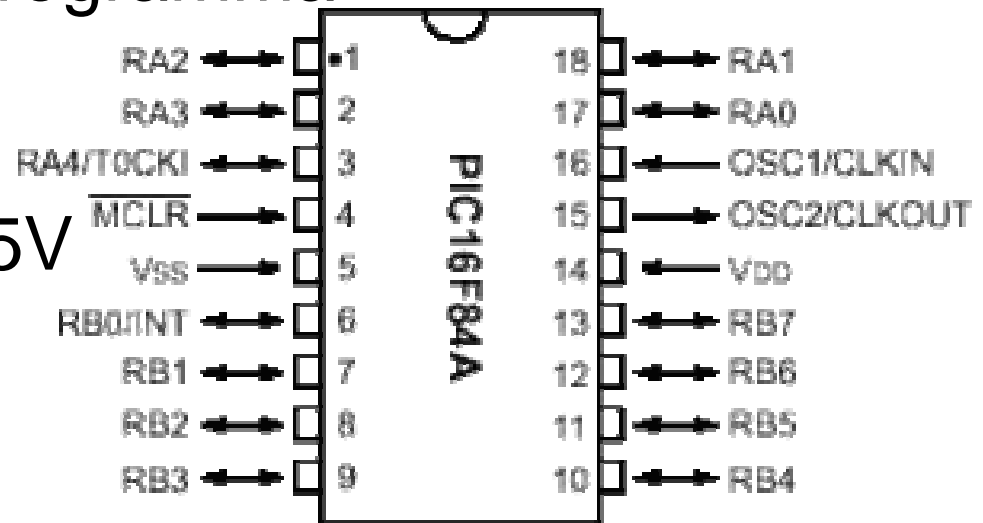
1024 istruzioni di programma

64 Byte RAM

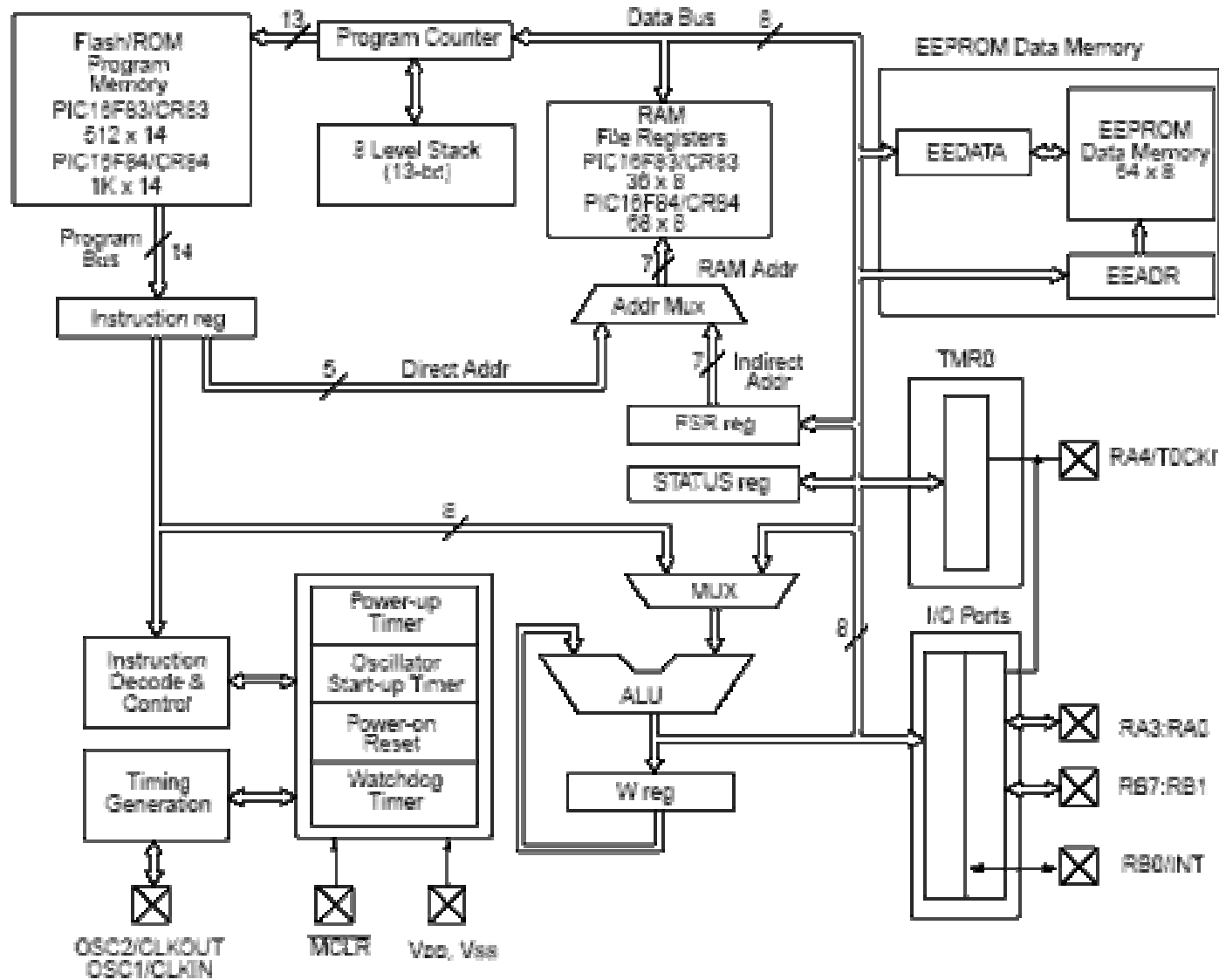
64 byte EEPROM

alimentazione 2-5,5V

1 Timer a 8 bit

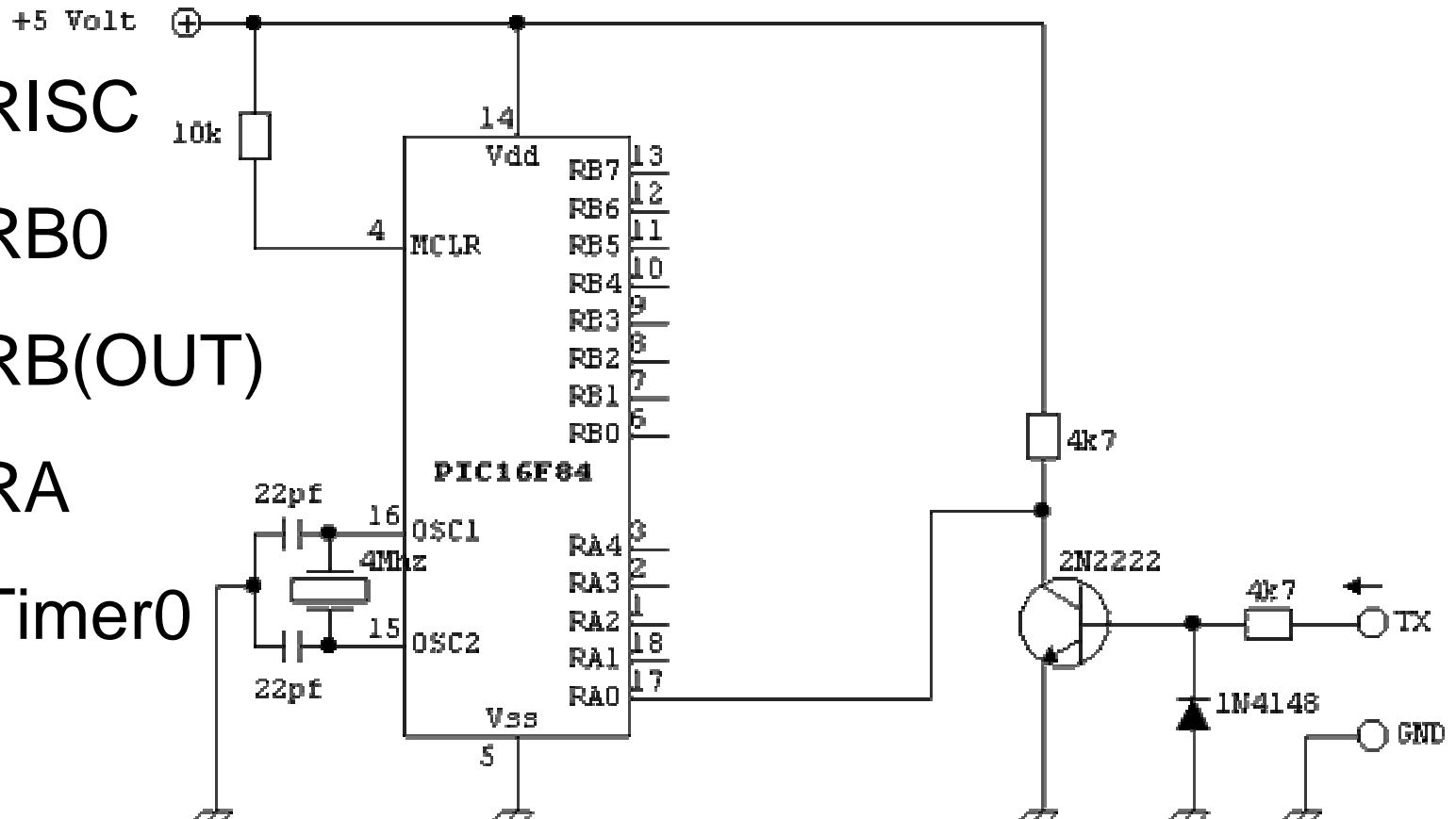


16F84 - 2



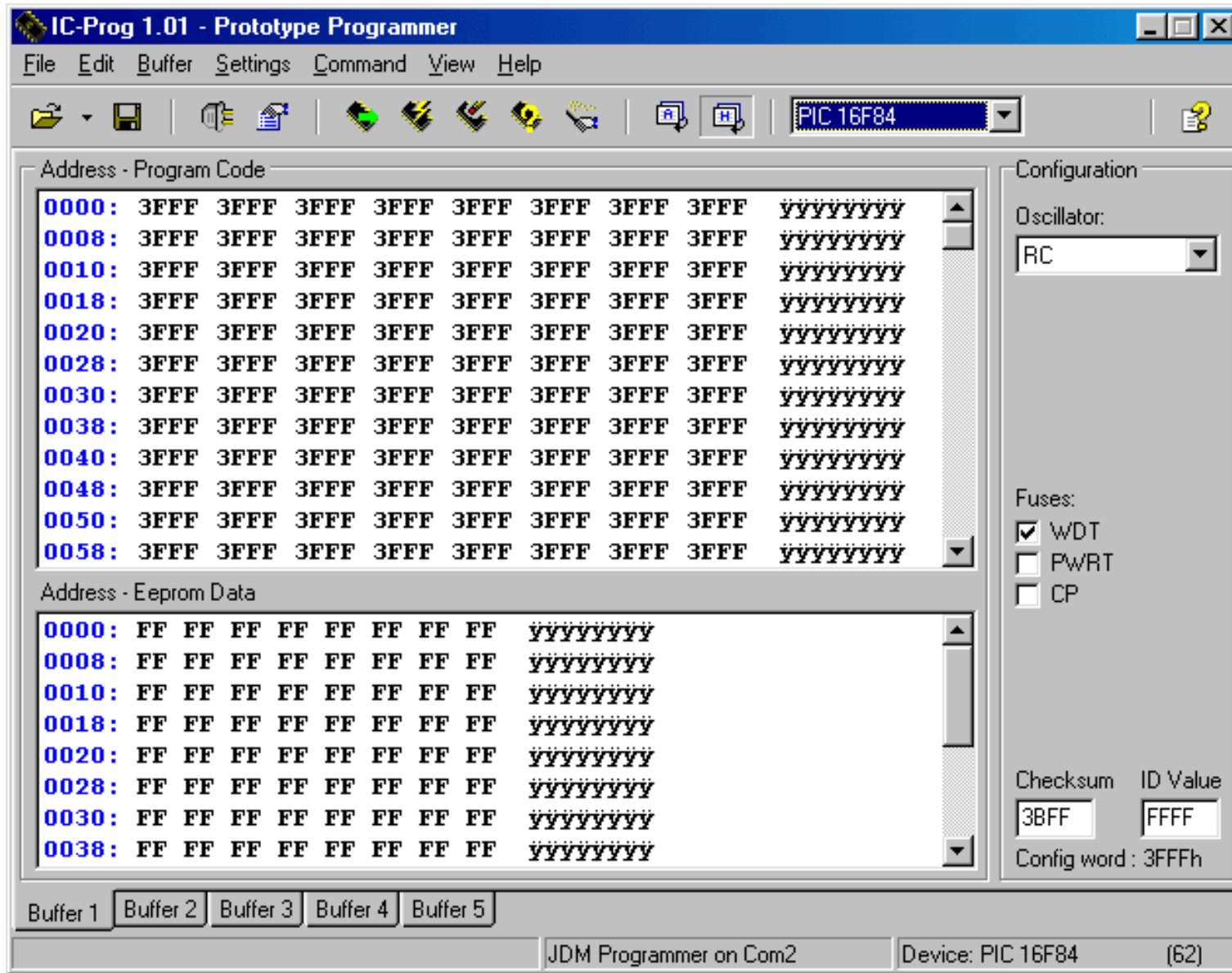
16F84 - 3

- RISC
- RB0
- RB(OUT)
- RA
- Timer0



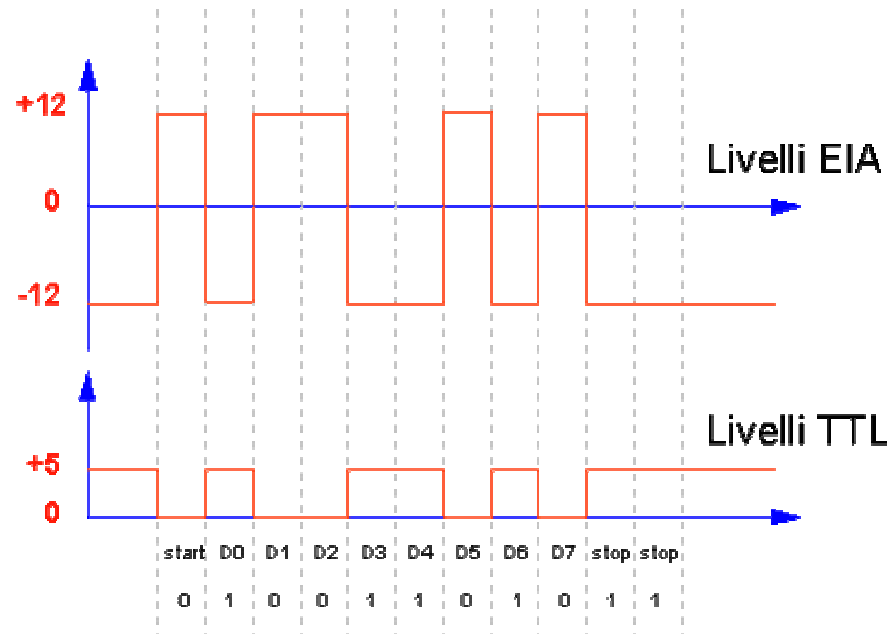
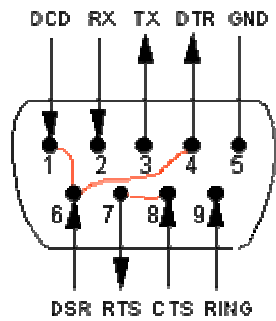
icProg

<http://www.xiaprojects.com/upanel>

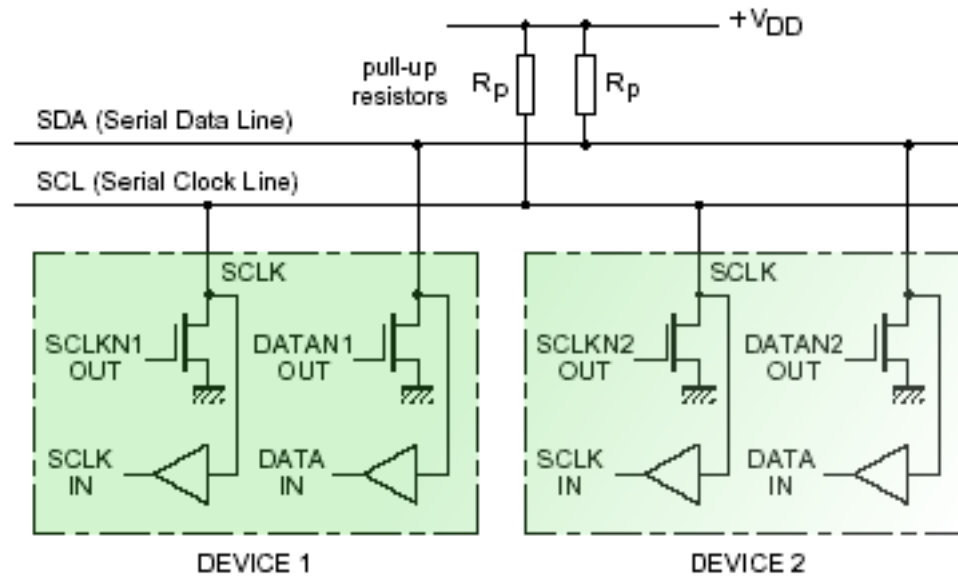


Stefano Zingarini - stefano@xiaprojects.com

RS232



I2C - 1



I2C - 2

