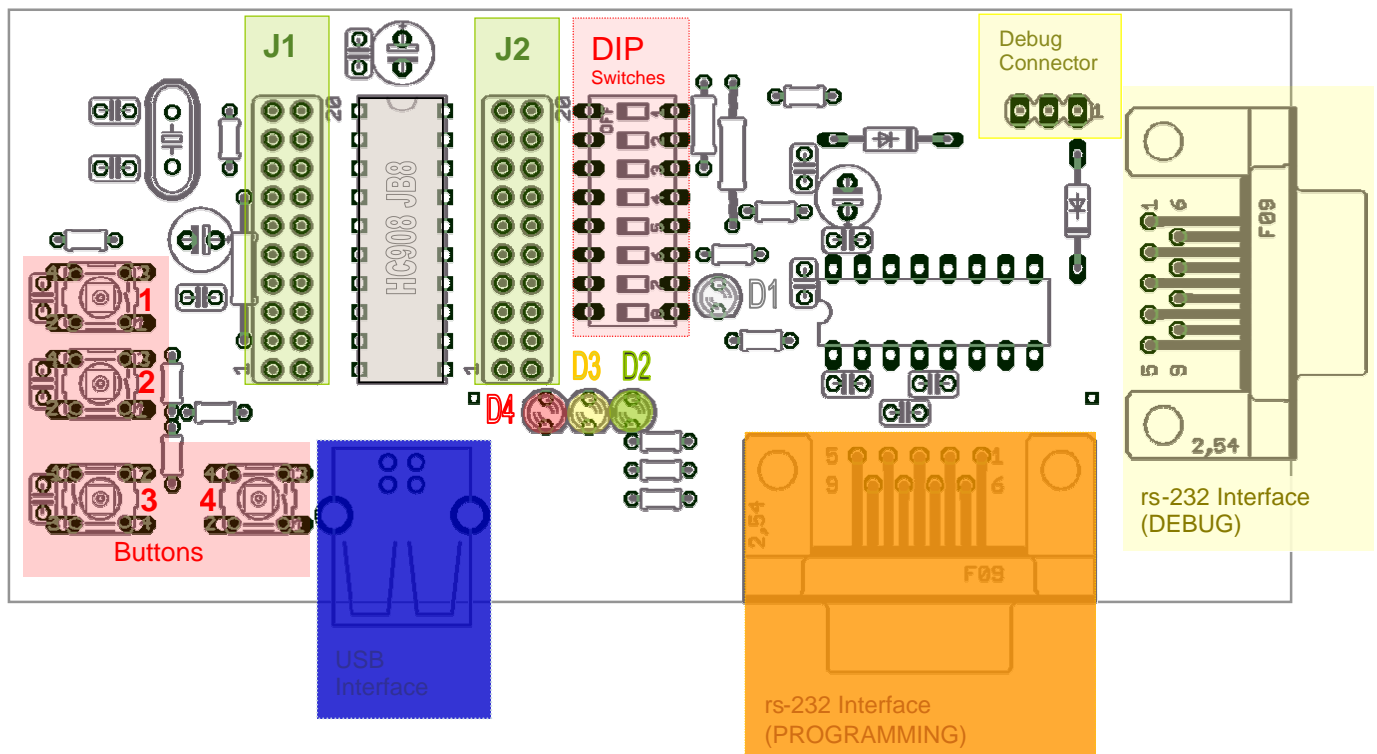


HC908 JB8 DevKit

DevKit Board Description:



DIP Switches:

- Enabling DIP1 will connect the Reset to coupling capacitor.
- Used to configure serial port programming mode (DIP2-6).
- When serial programming is not in use, DIP7 can be enabled to connect PTA0 to WHITE LED (D1)
- DIP8 is switch for USB power.

1	(1) – ON: Reset pin to coupling cap	
2	(2) – ON: PROGRAMMING MODE	(10k pull-up & serial in/out to PTA0)
3	(3) – ON: PROGRAMMING MODE	(10K pull-up PTA1)
4	(4) – ON: PROGRAMMING MODE	(10K pull-down PTA2)
5	(5) – ON: PROGRAMMING MODE	(10K pull-up PTA3)
6	(6) – ON: PROGRAMMING MODE	(Hi-voltage to IRQ)
7	(7) – ON: Enable WHITE LED (D1) in PTA0	
8	(8) – ON: POWER ON	

Buttons:

Buttons 1-4 are mapped by default to following pins:

Button 1	→	PTD0/1
Button 2	→	PTE1
Button 3	→	PTC0
Button 4	→	PTA4

All the Buttons has external pull-ups. Buttons 1-3 have also “de-bounce” capacitors.

LEDs:

LEDs are mapped by default to following pins:

D 1 (White)	→	PTA0 (if DIP7 is enabled!)
D 2 (Green)	→	PTA7
D 3 (Yellow)	→	PTA6
D 4 (Red)	→	PTA5

Debug –connector

Spare level-shifter in MAX232 are used as a separate Debug serial port interface. Input and output ports are available in 3 pin Debug connector.

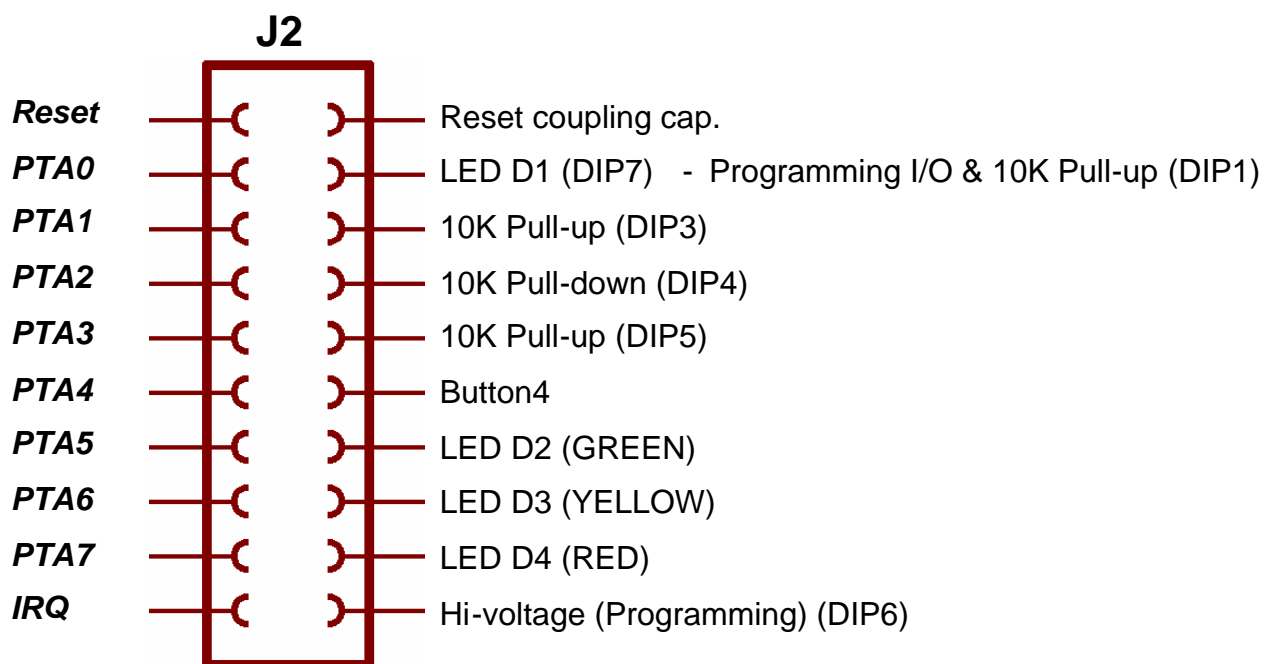
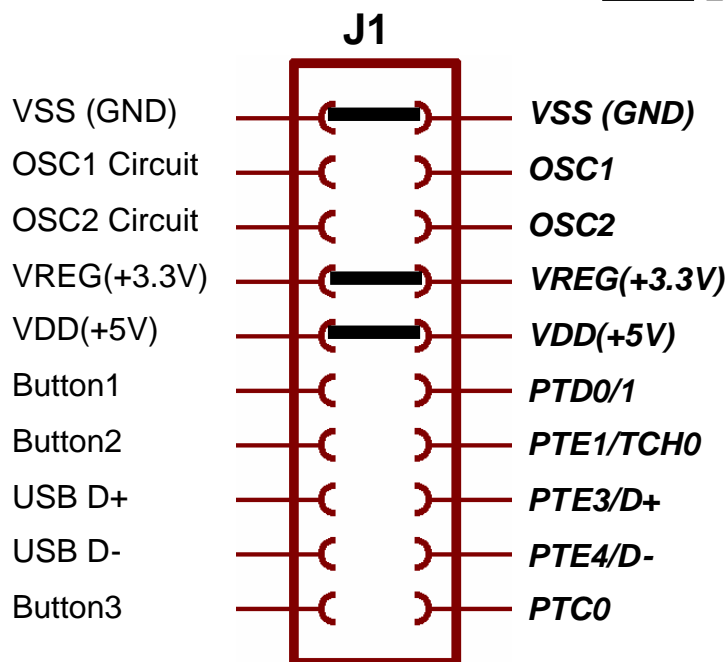
Pin1	→	Output (rs-232 TX)
Pin2	—	GND
Pin3	←	Input (rs-232 RX)

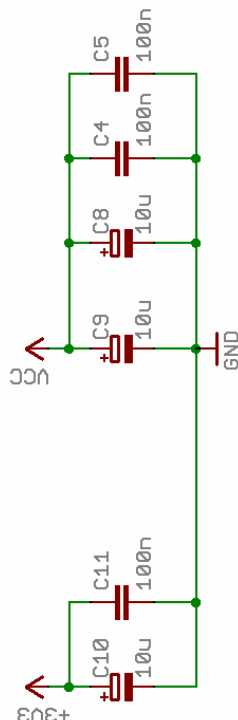
This connector is not wired by default to any of the HC908 pins, so J1 and/or J2 connector(s) have to be used when Debug interface is needed.

Expansion and signal reroute connectors J1 and J2

For making connections to outside of the DevKit, J1 and J2 connectors offers access to every pin in the HC908 JB8. It can be also used to map Buttons and LEDs to other than default pins. In order to utilize the Debug interface, at least one of the ports have to be wired to the Debug connector. Removing the jumper will disconnect the pin from the DevKit peripherals leaving both the pin and peripheral free to other uses.

■ = Hardwired





OSC CIRCUIT

