

CON3 contacts assignment (to LCD LVDS panel)

3.3V power supply to LCD panel (*)	1	2	3.3V power supply to LCD panel (*)
CFG1 (**)	3	4	CFG2 (**)
GND	5	6	GND
Pixel data RX0-	7	8	Pixel data RX0+
Pixel data RX1-	9	10	Pixel data RX1+
Pixel data RX2-	11	12	Pixel data RX2+
GND	13	14	GND
Pixel clock CLK-	15	16	Pixel clock CLK+
GND	17	18	GND
Pixel data RX3-	19	20	Pixel data RX3+

Notes:

* - can supply up to 2A in total to LCD. Look for alternative DC/DC converters for higher current.

** - these signals are optional and can be used to assign correct configuration to LCD panel (like select scan direction, rotate display, select LVDS color map, etc). Alternatively, these pins can be used to connect ambient light sensor. Give a look at below table for details:

	pull-up	pull-down	ambient light sensor
Signal CFG1	R8	R4	+3.3V (install R8)
Signal CFG2	PIC fw	R7	current output (install R7)

CON4 contacts assignment (to LCD backlight unit)

1	Backlight power (*)
2	NC
3	Backlight On signal (defined by PIC firmware)
4	PWM for backlight brightness (defined by PIC firmware)
5	NC
6	GND

Notes:

* - can supply 3.3V, 5V or optional higher voltage to backlight unit

Do the following to provide:

3.3V — install L2, remove L1

5V — install L1, remove L2

any — remove L1 and L2, connect any required voltage to point CON5