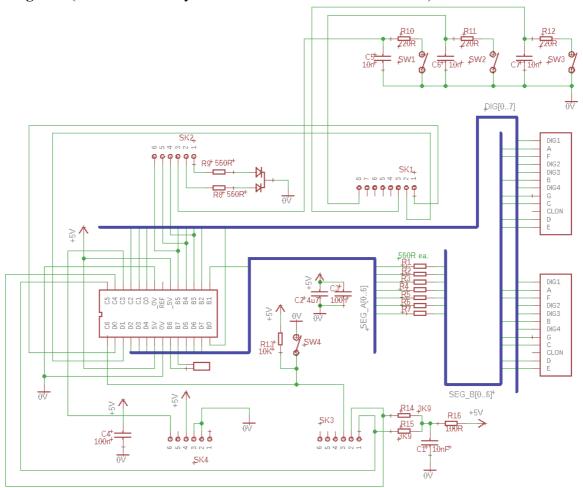
## PCB111000\_UNO

#### What is it

It is a simplified version of PCB111000 designed to plug onto an Arduino UNO pcb. It contains the display, Atmega 328 (with mini-OS and programmer), user switches and the dual led.

The UNO supplies the USB bridge, the Atmega device for user projects (now an Atmega 328), power and sockets.

Circuit diagram (note: A watch crystal is connected between B6 and B7)



#### **ARDUINO UNO connections**

SK1		SK2		SK3		SK4	
1	D0 RXD	1	B0	1	C5 SCL	1	
2	D1 TXD	2	B1	2	C4 SDA	2	0V
3	D2	3	B2	3	C3	3	0V
4	D3	4	B3 MOSI	4	C2	4	5V
5	D4	5	B4 MISO	5	C1	5	3V3
6	D5	6	B5 SCK	6	C0	6	C6 RESET
7	D6						
8	D7						

### PCB111000/Arduino interconnections

Note:

The Arduino\_UNO (to be k/a the UNO) contains the user IC, the one that hosts user projects. PCB111000\_UNO (to be k/a PCB111000\_1) contains the IC that hosts the mini-OS and programmer.

PCB111000_1	UNO		
SW1	B2		
SW2	D7	User switches	
SW3	D2		
SW4 C6 RESET	C3	Resets mini-OS/programmer IC	
R8	B0	Dual LED driver	
R9	B1	Duai LED driver	
R14	C4 SDA	I2C bus	
R15	C5 SCL	12C bus	
B3	B3 MOSI		
B4	B4 MISO	Bi directional programming interface	
B5	B5 SCK		
C3	C6 Reset	Resets the user IC	

# PCB111000\_1 Display connections

Segments	Port	Digits	Port
A	B1	1	B5
В	D2	2	C0
С	D3	3	C1
D	D4	4	C2
E	D5	5	B0
F	D6	6	B2
G	D7	7	В3
		8	B4