

Pin Number	Pin Function	Qwik&Low Function	Test Point	H3 PICKIT 2	H4 Proto Area	H6 Connector
1	RC7/RX	RX input from PC or from RX' proto pin	TP2			
2	RD4	Red LED				
3	RD5	Chip select for starburst LCD	TP10			
4	RD6	Power for temperature sensor				
5	RD7	Pushbutton input				
6	GND			x	x	x
7	VDD			x	x	x
8	RB0/INT0				x	x
9	RB1/INT1				x	x
10	RB2/INT2	RPG interrupt input				
11	RB3/CCP2				x	x
12	ICPGC	(Unused debugging feature)				
13	ICPGD	(Unused debugging feature)				
14	RB4				x	
15	RB5				x	
16	RB6/PGC	(Reserved by background debug mode)		x		
17	RB7/PGD	(Reserved by background debug mode)		x		
18	MCLR/VPP	Reset pushbutton		x		
19	RA0/AN0	AN0 input from potentiometer				
20	RA1/AN1	Input from temperature sensor	TP4			
21	RA2/AN2				x	x
22	RA3/AN3/VREF+	Connected to RD6 for VREF+ input	TP3			
23	RA4				x	x
24	RA5				x	x
25	RE0	Power for pushbutton and RPG direction				
26	RE1	RPG direction input				
27	RE2	Power for RPG interrupt input				
28	VDD				x	
29	GND				x	
30	RA7	Power for potentiometer				
31	Fosc/4	Output of CPU clock	TP6			
32	T10S0	32768 Hz watch crystal for Timer1 osc.				
33	ICRST	(Unused debugging feature)				
34	ICPORTS	Tied to VDD to avoid 28-pin emulation				
35	T10SI	32768 Hz watch crystal for Timer1 osc.				
36	RC2/CCP1				x	
37	RC3/SCK	SPI clock for LCD	TP9		x	
38	RD0	Optional stepper DIR (pin 9 of H6)				x
39	RD1	Optional stepper STEP (pin 10 of H6)				x
40	RD2	I/O for DS2401	TP5			
41	RD3	Power for DS2401 silicon serial number				
42	RC4/SDI	SPI input			x	
43	RC5/SDO	SPI output to LCD	TP8		x	
44	RC6/TX	TX output to PC	TP1			

FIGURE 3-7 MCU pins and their uses.