MCU Chip		OAKS MINI Board			MCU Board					Training I/O Board	Comments	
	Pin #		CN1	CN2		CN2M	T1	CN1M	CN1C			
		T1_out (MAX232)	24		Dsub_0 t2 (Sub)			24	24			
		R1_in (MAX232)	23		Dsub_0 t3 (Sub)			23	23			
		T2_out (MAX232)	22		Dsub_1 t2 (Host)			22	22			
		R2_in (MAX232)	21		Dsub_1 t3 (Host)			21	21			
RESET	7	Pull up (R3)		48	RESET (push) to GND			48	48			
CNV_ss	4	JP-1, Pull down (R1)		47	LED_3 & SW_3 (toggle) to V_cc			47	47		Program mode	
P8_6/X_cout	6	Pull up (R7)		46	LCD R/W*			46	46			
P8_7/X_cin	5			45	LCD RS			45	45			
P9_0/TB_0in	3			44	LCD DB4			44	44		Timer B0 input	
P9_1/TB_1in	2			43	LCD DB5			43	43		Timer B1 input	
P9_2/TB_2in	1			42	LCD DB6			42	42		Timer B2 input	
P9_3	48			41	LCD DB7			41	41			
AV_cc	47	HJP-7 to V_cc		40				40	40			
V_ref	46	HJP-6 to V_cc		39				39	39			
P10_0/AN_0	45			38	ADC/I/O_0		13	38	38	VR_a		
P10_1/AN_1	43			37	ADC/I/O_1		12	37	37	VR_b		
P10_2/AN_2	42			36	ADC/I/O_2		11	36	36	VR_c		
P10_3/AN_3	41			35	ADC/I/O_3		10	35	35			
P10_4/AN_4/KI_0*	40			34	ADC/I/O_4		9	34	34	from 74HC574AP (Q)	SW_a (toggle)	
P10_5/AN_5/KI_1*	39			33	ADC/I/O_5		8	33	33	from 74HC574AP (Q)	SW_b (toggle)	
P10_6/AN_6/KI_2*	38			32	ADC/I/O_6		7	32	32	from 74HC574AP (Q)	SW_c (toggle)	
P10_7/AN_7/KI_3*	37			31	ADC/I/O_7		6	31	31	from 74HC574AP (Q)	SW_d (toggle)	
P1_5/INT3*/AD_trg	36			30	AD_trg/I/O_8		5	30	30	from 74HC574AP (Q)	SW_e (push)	
P1_6/INT4*	35			29	I/O_9		4	29	29	from 74HC574AP (Q)	SW_f (push)	
P1_7/INT5*	34			28	I/O_a		3	28	28	from 74HC574AP (Q)	SW_g (push)	
P6_0/CTS_0*/RTS_0*	33			27	LED_1			27	27			
P6_1/CLK_0	32		20		LED_2			20	20			
P6_2/RXD_0	31	HJP-3 to R1_out (MAX232)	19					19	19			
P6_3/TXD_0	30	HJP-4 to T1_in (MAX232)	18					18	18			
P6_4/CTS_1*/RTS_1*/CTS_0*/CLKS_1	29		17		SW_1 (toggle) to GND			17	17			
P6_5/CLK_1	28	Pull down (R6)	16					16	16			
P6_6/RXD_1	27	HJP-1 to R2_out (MAX232)	15					15	15			
P6_7/TXD_1	26	Pull up (R5), HJP-2 to T2_in (MAX232)	14					14	14			
P7_0/TA_0out/TXD_2/SDA	25		13		JP to RCS_0 & Serial / H-br_0 PWM	1		13	13	FCLED_r	Special Type Serial	Open Drain
P7_1/TA_0in/RXD_2/SCL	24		12		JP to Serial / H-br_0 Dir	2		12	12	LED_a	Special Type Serial	Open Drain
P7_2/TA_1out/V/CLK_2	23		11		JP to RCS_1 & Serial / H-br_1 PWM	3		11	11	FCLED_g	Special Type Serial	
P7_3/TA_1in/V*/CTS_2*/RTS_2*	22		10		JP to Serial / H-br_1 Dir	4		10	10	LED_b	Special Type Serial	
P7_4/TA_2out/W	21		9		JP to RCS_2 / H-br_2 PWM	5		9	9	FCLED_b	X1 count Phase A	
P7_5/TA_2in/W*	20		8		JP to H-br_2 Dir	6		8	8	LED_c	X1 count Phase B	
P7_6/TA_3out	19		7		JP to RCS_3 / Enc_0 A (PhC)	7		7	7	from Encorder_a A	X4 count Phase A	
P7_7/TA_3in	18		6		JP to Encorder_0 B (PhC)	8		6	6	from Encorder_a B	X4 count Phase B	
P8_0/TA_4out/U	17		5		JP to RCS_4 / Enc_1 A (PhC)	9		5	5	from Encorder_b A	X4 count Phase A	
P8_1/TA_4in/U*	16		4		JP to Encorder_1 B (PhC)	10		4	4	from Encorder_b A	X4 count Phase B	
P8_2/INT_0*	15		3		INT_0 (push) to GND (INT_0*)			3	3			
P8_3/INT_1*	14		2		SW_2 (toggle) to GND			2	2			
P8_5/NMI*/SD*	12		1		LCD E			1	1			
V_cc	11			26	5V (V_cc)	13, 14	2	26	26	5V (V_cc)		
GND				25	GND	11, 12	1	25	25	GND		
V_ss	9	GND										
AV_ss	44	GND										