Rev. 2 (6 May 09)

MCU CARD H1 CONNECTOR SIGNALS | **APPLICATION CARD CONNECTOR P1**

Pin #	MICROCORE-11	Pin#	AD9S12DEMH1	DKKIR	AD11QMDM	AD9S12SSMI	AD12XYSM	AD12DXXYZSM	AD12DAC4	AD12DAS32
	with Bridgeplane		(mirror-image pinout)	(mirror-image pinout)	(mirror-image pinout)	(mirror-image pinout)				
1	PD2/MISO	1	LCD DB4		MDIRA2	MISO			WR*	
2	PD3/MOSI	2	LCD DB5	595DAT	MDIRB2	MOSI				
3	PD4/SCK	3	LCD DB6	595CLK	MENA2	SCK			CSLSB*	
4	PD5/SS*	4	LCD DB7	595LAT	MENB2	SS*			CSMSB*	
5		5	LED D2 GRN							
6	PA7/PAI/OC1	6	S1	KBD DAT	MOSFET					HBEN
7	PA6/OC2/OC1	7	S2	SPKR	MDIRB1		MOSFET			PT6
8	PA5/OC3/OC1	8	S3		MDIRA1					PT5
9	PA4/OC4/OC1	9	S4		MENB1					
10	PA3/IC4/OC5/OC1	10	S5	KBD CLK	MENA1					
11	PA2/IC1	11	S6			SPEAKER		X HOME		
12	PA1/IC2	12	S7			SRF04 PIN3		Y HOME		
13	PA0/IC3	13	S8			SRF04 PIN2		XZ HOME		
14		14	SPKR	DISP EN			X0 I1 CTRL	Y HALF	YLDAC4	CS4B*
15		15	LCD CONTRAST	DISP RS			X0 I0 CTRL	Z HALF	XLDAC4	CS4A*
16		16	VOUT				X1 I1 CTRL	X DIR	YLDAC3	CS3B*
17		17	DRIVER1/SEG8				X1 I0 CTRL	X STEP	XLDAC3	CS3A*
18		18	DRIVER2/SEG9			SERVO4	Y0 I1 CTRL	Y STEP	YLDAC2	CS2B*
19		19	LCD RS			SERVO3	Y0 I0 CTRL	Y DIR	XLDAC2	CS2A*
20		20	LCD E			SERVO2	Y1 I1 CTRL	Z STEP	YLDAC1	CS1B*
21		21	LCD R/W*			SERVO1	Y1 I0 CTRL	Z DIR	XLDAC1	CS1A*
22	PE0/AN0	22				SERVO2 MONITOR				INT3A
23	PE1/AN1	23	TEMP			SERVO1 MONITOR				INT3B
24	PE2/AN2	24	POT			VIN MONITOR				INT4A
25	PE3/AN3	25	LIGHT			MIC				INT4B
26	PE7/AN7	26	SW5			SENSOR4				INT2B
27	PE6/AN6	27	SW4			SENSOR3				INT2A
28	PE5/AN5	28	SW3			SENSOR2				INT1B
29	PE4/AN4	29	SW2			SENSOR1				INT1A
30	VRH	30								
31	VRL	31	AGND							
32		32				TX SCI				
33		33								ECLK
34		34				RX SCI				
35		35	LED SEG7	KEYY3		IR TX GATE	LIMIT INPUT Y1	X HALF	D0/D8	D7
36		36	LED SEG6	KEYY2			LIMIT INPUT Y0	Z CTRL	D1/D9	D6
37		37	LED SEG5	KEYY1			LIMIT INPUT X1	Y CTRL	D2/D10	D5
38		38	LED SEG4	KEYY0			LIMIT INPUT X0	X CTRL	D3/D11	D4
39		39	LED SEG3	KEYX3			Y PHASE CTRL1	XYZ EN	D4	D3
40		40	LED SEG2	KEYX2			Y PHASE CTRL0	X LIMIT	D5	D2
41		41	LED SEG1	KEYX1			X PHASE CTRL1	Y LIMIT	D6	D1/D9
42		42	LED SEG0	KEYX0			X PHASE CTRL0	Z LIMIT	D7	D0/D8
43		43								
44		44						RESET*		
45	XIRQ*	45								
46	IRQ*	46		KSTRB		IR RX	LIMITS	LIMITS		
47	VCC (+5V)	47	VCC (+5V)	VCC (+5V)	VCC (+5V)	VCC (+5V)	VCC (+5V)	VCC (+5V)	VCC (+5V)	VCC (+5V)
48		48	LED D3 RED	LED D3 RED						
49	GROUND	49	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND
50	GROUND	50	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND	GROUND