

connector	Pin no.	connection	remark
J1	1	+5Vdc	External DC power supply
	2	Gnd	Ground

J2	1	Input	7805 regulator
	2	Gnd	Ground
	3	Output	

J3	1	AC input	Transformer output
	2	Gnd	Ground
	3	AC input	Transformer output

J4	1	P3.2	D.1 S Data / Real time
	2	Gnd	Ground

J5	1	DCD	Pin 1, 2, 7 interconnected
	2	DSR	Pin 1, 2, 7 interconnected
	3	Tx	
	4	RTS	Pin 4, 6 interconnected
	5	Rx	
	6	CTS	Pin 4, 6 interconnected
	7		Pin 1, 2, 7 interconnected
	8	RI	
	9	Gnd	Ground
	10	x	No Connection

J7	1, 3, 5, 7, 9, 11, 13, 15, 17	Gnd	All odd pins Ground connected
	2	P10	I/O for further development
	4	P11	I/O for further development
	6	P12	I/O for further development
	8	P13	I/O for further development
	10	P14	I/O for further development
	12	P15	MOSI for isp programming
	14	P16	MISO for isp programming
	16	P17	SCK for isp programming
	18	RST	RST for isp programming

J8	1, 3, 5, 7	Gnd	All odd pins Ground connected
	2	P3.2	/Int0 I/O for further development
	4	P3.3	/Int1 I/O for further development
	6	P3.4	T0 I/O for further development
	8	P3.5	T1 I/O for further development

connector	Pin no.	connection	remark
J9	1	RLY0	Output relay 0
	2	RLY1	Output relay 1
	3	RLY2	Output relay 2
	4	RLY3	Output relay 3

J10	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39	Gnd	All odd pins are Ground connected
	2	Bit 0	Group-A Input 0 / Data-1, b0
	4	Bit 1	Group-A Input 1 / Data-1, b1
	6	Bit 2	Group-A Input 2 / Data-1, b2
	8	Bit 3	Group-A Input 3 / Data-1, b3
	10	Bit 4	Group-A Input 4 / Data-1, b4
	12	Bit 5	Group-A Input 5 / Data-1, b5
	14	Bit 6	Group-A Input 6 / Data-1, b6
	16	Bit 7	Group-A Input 7 / Data-1, b7
	18	Bit 0	Group-B Input 0 / Data-2, b0
	20	Bit 1	Group-B Input 1 / Data-2, b1
	22	Bit 2	Group-B Input 2 / Data-2, b2
	24	Bit 3	Group-B Input 3 / Data-2, b3
	26	Bit 4	Group-B Input 4 / Data-2, b4
	28	Bit 5	Group-B Input 5 / Data-2, b5
	30	Bit 6	Group-B Input 6 / Data-2, b6
	32	Bit 7	Group-B Input 7 / Data-2, b7
	34, 36, 38, 40	x	No Connection

J11		Pin configuration similar to J10 and Even pins of 2~16 as Group-C Input 0~7 / Data-3, b0~b7 Even pins of 18~32 as Group-D Input 0~7 / Data-4, b0~b7
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J12		Pin configuration similar to J10 and Even pins of 2~16 as Group-E Input 0~7 / Data-5, b0~b7 Even pins of 18~32 as Group-F Input 0~7 / Data-6, b0~b7
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J13		Pin configuration similar to J10 and Even pins of 2~16 as Group-G Input 0~7 / Data-7, b0~b7 Even pins of 18~32 as Group-H Input 0~7 / Data-8, b0~b7
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connector	Pin no.	Connection	Remark
J14		Pin configuration similar to J10 and Even pins of 2~16 as Group-I Input 0~7 / Data-9, b0~b7 Even pins of 18~32 as Group-J Input 0~7 / Data-10, b0~b7	

J15	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39	Gnd	All odd pins Ground connected
	2	Bit 0	Group-A Output 0 / b0
	4	Bit 1	Group-A Output 1 / b1
	6	Bit 2	Group-A Output 2 / b2
	8	Bit 3	Group-A Output 3 / b3
	10	Bit 4	Group-A Output 4 / b4
	12	Bit 5	Group-A Output 5 / b5
	14	Bit 6	Group-A Output 6 / b6
	16	Bit 7	Group-A Output 7 / b7
	18	Bit 0	Group-B Output 0 / b0
	20	Bit 1	Group-B Output 1 / b1
	22	Bit 2	Group-B Output 2 / b2
	24	Bit 3	Group-B Output 3 / b3
	26	Bit 4	Group-B Output 4 / b4
	28	Bit 5	Group-B Output 5 / b5
	30	Bit 6	Group-B Output 6 / b6
	32	Bit 7	Group-B Output 7 / b7
	34, 36, 38, 40	x	No Connection