



**J1**

PA0/ADC0	34	PA0/ADC0
PA1/ADC1	33	PA1/ADC1
PA2/ADC2	32	PA2/ADC2
PA3/ADC3	31	PA3/ADC3
PA4/ADC4	30	PA4/ADC4
PA5/ADC5	29	PA5/ADC5
GND	28	GND
GND	27	GND
+5V	26	+5V
+5V	25	+5V
PB0/XCK0/T0	24	PB0/XCK0/T0
PB1/Ck0/T1	23	PB1/Ck0/T1
PB2/Int2	22	PB2/Int2
PB3/OC0A	21	PB3/OC0A
PB4/SS	20	PB4/SS
PB5/MOSI	19	PB5/MOSI
PB6/MISO	18	PB6/MISO
PB7/SCK	17	PB7/SCK
+5V	16	+5V
+3V3	15	+3V3
+5V	14	+5V
GND	13	GND
GND	12	GND
RES_IO	11	RES_IO
PD0/RxD0/T3	10	PD0/RxD0/T3
PD1/TxD0	9	PD1/TxD0
PD2/RxD1/Int0	8	PD2/RxD1/Int0
PD3/TxD1/Int1	7	PD3/TxD1/Int1
PD4/XCK1/OC1B	6	PD4/XCK1/OC1B
PD5/OC1A	5	PD5/OC1A
PD6/OC2B/ICP	4	PD6/OC2B/ICP
PD7/OC2A	3	PD7/OC2A
PC1/SDA	2	PC1/SDA
PC0/SCL	1	PC0/SCL

**J2**

GND	10	GND
PB1/Ck0/T1	9	PB1/Ck0/T1
GND	8	GND
PD6/OC2B/ICP	7	PD6/OC2B/ICP
PB2/Int2	6	PB2/Int2
PD0/RxD0/T3	5	PD0/RxD0/T3
+5V	4	+5V
PD1/TxD0	3	PD1/TxD0
+5V	2	+5V
PB0/XCK0/T0	1	PB0/XCK0/T0

**J3**

GND	10	GND
PB3/OC0A	9	PB3/OC0A
GND	8	GND
PA4/ADC4	7	PA4/ADC4
PB2/Int2	6	PB2/Int2
PD2/RxD1/Int0	5	PD2/RxD1/Int0
+5V	4	+5V
PD3/TxD1/Int1	3	PD3/TxD1/Int1
+5V	2	+5V
PD4/XCK1/OC1B	1	PD4/XCK1/OC1B

**J4**

GND	10	GND
PB1/Ck0/T1	9	PB1/Ck0/T1
GND	8	GND
PA4/ADC4	7	PA4/ADC4
PB2/Int2	6	PB2/Int2
PA5/ADC5	5	PA5/ADC5
+5V	4	+5V
PC1/SDA	3	PC1/SDA
+5V	2	+5V
PC0/SCL	1	PC0/SCL

**J24**

GND	6	GND
PB1/Ck0/T1	5	PB1/Ck0/T1
PA5/ADC5	4	PA5/ADC5
PC1/SDA	3	PC1/SDA
+5V	2	+5V
PC0/SCL	1	PC0/SCL

**DD1**

PB0/XCK0/T0	1	PB0/XCK0/T0
PB1/Ck0/T1	2	PB1/Ck0/T1
PB2/Int2	3	PB2/Int2
PB3/OC0A	4	PB3/OC0A
PB4/SS	5	PB4/SS
PB5/MOSI	6	PB5/MOSI
PB6/MISO	7	PB6/MISO
PB7/SCK	8	PB7/SCK
RES	9	RES
XTAL2	10	XTAL2
XTAL1	11	XTAL1
F_CPU	13	F_CPU
PD0/RxD0/T3	14	PD0/RxD0/T3
PD1/TxD0	15	PD1/TxD0
PD2/RxD1/Int0	16	PD2/RxD1/Int0
PD3/TxD1/Int1	17	PD3/TxD1/Int1
PD4/XCK1/OC1B	18	PD4/XCK1/OC1B
PD5/OC1A	19	PD5/OC1A
PD6/OC2B/ICP	20	PD6/OC2B/ICP
PD7/OC2A	21	PD7/OC2A
PC0/SCL	22	PC0/SCL

**DD2**

Vdd	1	Vdd
Gnd	2	Gnd
RES	3	RES
PD6/OC2B/ICP	4	PD6/OC2B/ICP
PB2/Int2	5	PB2/Int2
PD0/RxD0/T3	6	PD0/RxD0/T3
+5V	7	+5V
PD1/TxD0	8	PD1/TxD0
+5V	9	+5V
PB0/XCK0/T0	10	PB0/XCK0/T0

**J7**

TCK	1	TCK
GND	2	GND
TDO	3	TDO
+5V	4	+5V
TMS	5	TMS
RES	6	RES
nSRST	7	nSRST
VCC	8	VCC
nTRST	9	nTRST
TDI	10	TDI
GND	11	GND

**J5**

GND	16	GND
+3V3	15	+3V3
GND	14	GND
RES_IO	13	RES_IO
PD6/OC2B/ICP	12	PD6/OC2B/ICP
PB1/Ck0/T1	11	PB1/Ck0/T1
PB0/XCK0/T0	10	PB0/XCK0/T0
PA4/ADC4	9	PA4/ADC4
PA5/ADC5	8	PA5/ADC5
PB4/SS	7	PB4/SS
PB2/Int2	6	PB2/Int2
PB6/MISO	5	PB6/MISO
+5V	4	+5V
PB5/MOSI	3	PB5/MOSI
+5V	2	+5V
PB7/SCK	1	PB7/SCK

**ATmega1284P**

(ADC0) PA0	40	PA0/ADC0
(ADC1) PA1	39	PA1/ADC1
(ADC2) PA2	38	PA2/ADC2
(ADC3) PA3	37	PA3/ADC3
(ADC4) PA4	36	PA4/ADC4
(ADC5) PA5	35	PA5/ADC5
(ADC6) PA6	34	PA6/ADC6
(ADC7) PA7	33	PA7/ADC7
(Tosc2) PC7	29	PC7
(Tosc1) PC6	28	PC6
(TDI) PC5	27	TDI
(TDO) PC4	26	TDO
(TMS) PC3	25	TMS
(TCK) PC2	24	TCK
(SDA) PC1	23	PC1/SDA
(SCL) PC0	22	PC0/SCL

**DD2.1**

Vdd	1	Vdd
Gnd	2	Gnd
RES	3	RES
PD6/OC2B/ICP	4	PD6/OC2B/ICP
PB2/Int2	5	PB2/Int2
PD0/RxD0/T3	6	PD0/RxD0/T3
+5V	7	+5V
PD1/TxD0	8	PD1/TxD0
+5V	9	+5V
PB0/XCK0/T0	10	PB0/XCK0/T0

**DD3**

Vdd	1	Vdd
Gnd	2	Gnd
RES	3	RES
PD6/OC2B/ICP	4	PD6/OC2B/ICP
PB2/Int2	5	PB2/Int2
PD0/RxD0/T3	6	PD0/RxD0/T3
+5V	7	+5V
PD1/TxD0	8	PD1/TxD0
+5V	9	+5V
PB0/XCK0/T0	10	PB0/XCK0/T0

**DD3.1**

D0	15	CS_SD
D1	14	CS_ZIF
D2	13	T_LED
D3	12	CS_GF
D4	11	CS_LCD_T
D5	10	CS_BAR
D6	9	CS_RAM
D7	8	CS_UHR

**DD4**

Vdd	1	Vdd
Gnd	2	Gnd
RES	3	RES
PD6/OC2B/ICP	4	PD6/OC2B/ICP
PB2/Int2	5	PB2/Int2
PD0/RxD0/T3	6	PD0/RxD0/T3
+5V	7	+5V
PD1/TxD0	8	PD1/TxD0
+5V	9	+5V
PB0/XCK0/T0	10	PB0/XCK0/T0

**DD5**

INT/SQ	5	32kHz
DIN	3	
DOUT	6	
RST	4	
VCC	1	+5V
Vbat	16	

**DD4.1**

D	2	74AHCT125
EZ	3	
Y	3	

**DD4.2**

D	2	74AHCT125
EZ	3	
Y	3	

**DD4.3**

D	2	74AHCT125
EZ	3	
Y	3	

**DD4.4**

D	2	74AHCT125
EZ	3	
Y	3	

**J6**

+3V3	9	+3V3
PB2/Int2	8	PB2/Int2
PD6/OC2B/ICP	7	PD6/OC2B/ICP
PB1/Ck0/T1	6	PB1/Ck0/T1
PB0/XCK0/T0	5	PB0/XCK0/T0
+5V	4	+5V
PD0/RxD0/T3	3	PD0/RxD0/T3
PD1/TxD0	2	PD1/TxD0
GND	1	GND

**J8**

PB0/XCK0/T0	1	PB0/XCK0/T0
PB1/Ck0/T1	2	PB1/Ck0/T1
PB2/Int2	3	PB2/Int2
PB3/OC0A	4	PB3/OC0A
PB4/SS	5	PB4/SS
PB5/MOSI	6	PB5/MOSI
PB6/MISO	7	PB6/MISO
PB7/SCK	8	PB7/SCK
RES	9	RES
+5V	10	+5V
GND	11	GND
RES_IO	12	RES_IO
F_CPU	13	F_CPU
PD0/RxD0/T3	14	PD0/RxD0/T3
PD1/TxD0	15	PD1/TxD0
PD2/RxD1/Int0	16	PD2/RxD1/Int0
PD3/TxD1/Int1	17	PD3/TxD1/Int1
PD4/XCK1/OC1B	18	PD4/XCK1/OC1B
PD5/OC1A	19	PD5/OC1A
PD6/OC2B/ICP	20	PD6/OC2B/ICP

**J9**

PD7/OC2A	1	PD7/OC2A
PC0/SCL	2	PC0/SCL
PC1/SDA	3	PC1/SDA
TCK	4	TCK
TMS	5	TMS
TDO	6	TDO
TDI	7	TDI
E	8	E
A2	9	A2
AVcc	10	AVcc
GND	11	GND
Aref	12	Aref
A1	13	A1
A0	14	A0
PA5/ADC5	15	PA5/ADC5
PA4/ADC4	16	PA4/ADC4
PA3/ADC3	17	PA3/ADC3
PA2/ADC2	18	PA2/ADC2
PA1/ADC1	19	PA1/ADC1
PA0/ADC0	20	PA0/ADC0

**Port 0**

+3V3	9	+3V3
PB2/Int2	8	PB2/Int2
PD6/OC2B/ICP	7	PD6/OC2B/ICP
PB1/Ck0/T1	6	PB1/Ck0/T1
PB0/XCK0/T0	5	PB0/XCK0/T0
+5V	4	+5V
PD0/RxD0/T3	3	PD0/RxD0/T3
PD1/TxD0	2	PD1/TxD0
GND	1	GND



