

U?  
74LS08

1A	VCC
1B	4B
1Y	4A
2A	4Y
2B	3B
2Y	3A
GND	3Y

U?  
74LS245

DIR	VCC
A1	$\overline{OE}$
A2	B1
A3	B2
A4	B3
A5	B4
A6	B5
A7	B6
A8	B7
GND	B8

U?  
74LS32

1A	VCC
1B	4B
1Y	4A
2A	4Y
2B	3B
2Y	3A
GND	3Y

U?  
74LS540

$\overline{E1}$	VCC
D1	$\overline{E2}$
D2	$\overline{Y1}$
D3	$\overline{Y2}$
D4	$\overline{Y3}$
D5	$\overline{Y4}$
D6	$\overline{Y5}$
D7	$\overline{Y6}$
D8	$\overline{Y7}$
GND	$\overline{Y8}$

U?  
74LS74

$\overline{1CLR}$	VCC
1D	$\overline{2CLR}$
1CLK	2D
1PRE	$\overline{2CLK}$
1Q	$\overline{2PRE}$
$\overline{1G}$	2Q
GND	$\overline{2G}$

U?  
ATMega1284

PB0	(ADC3) PA0
PB1	(ADC1) PA1
PB2 (INT2)	(ADC2) PA2
PB3	(ADC3) PA3
PB4 (SS)	(ADC4) PA4
PB5 (MOSI)	(ADC5) PA5
PB6 (MISO)	(ADC6) PA6
PB7 (SCK)	(ADC7) PA7
RESET	AREF
VCC	AGND
GND	AVCC
XTAL2	PC7
XTAL1	PC6
PD0 (RX0)	PC5
PD1 (TX0)	PC4
PD2 (RX1/INT0)	PC3
PD3 (TX1/INT1)	PC2
PD4	(SDA) PC1
PD5	(SCL) PC0
PD6	PD7

U?  
MCP23S17

GPB0	GPA7
GPB1	GPA6
GPB2	GPA5
GPB3	GPA4
GPB4	GPA3
GPB5	GPA2
GPB6	GPA1
GPB7	GPA0
VCC	INTA
GND	INTB
$\overline{CS}$	$\overline{RESET}$
S0K	A2
SI	A1
SO	A0

U?  
MT5C1008

NC	VCC
A16	A15
A14	CE2
A12	$\overline{WE}$
A7	A13
A6	A8
A5	A9
A4	A11
A3	$\overline{OE}$
A2	A10
A1	$\overline{CE}$
A0	DQ8
DQ1	DQ7
DQ2	DQ6
DQ3	DQ5
GND	DQ4