

U?  
74LS02

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

U?  
74LS08

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

U?  
74LS245

|     |     |
|-----|-----|
| DIR | VCC |
| A1  | 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

|     |     |
|-----|-----|
| E1  | VCC |
| D1  | E2  |
| D2  | Y1  |
| D3  | Y2  |
| D4  | Y3  |
| D5  | Y4  |
| D6  | Y5  |
| D7  | Y6  |
| D8  | Y7  |
| GND | Y8  |

U?  
74LS688

|     |     |
|-----|-----|
| G   | VCC |
| P0  | P-Q |
| Q0  | Q7  |
| P1  | P7  |
| Q1  | Q6  |
| P2  | P6  |
| Q2  | Q5  |
| P3  | P5  |
| Q3  | Q4  |
| GND | P4  |

U?  
74LS74

|      |      |
|------|------|
| 1CLR | VCC  |
| 1D   | 2CLR |
| 1CLK | 2D   |
| 1PRE | 2CLK |
| 1D   | 2PRE |
| 1Q   | 2Q   |
| GND  | 2Q   |

U?  
ATMega1284

|                |            |
|----------------|------------|
| PB0            | (ADC0) 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?  
AY-3-8910

|          |          |
|----------|----------|
| GND      | VCC      |
| NC       | TEST 1   |
| ANALOG B | ANALOG C |
| ANALOG A | DA0      |
| NC       | DA1      |
| IOB7     | DA2      |
| IOB6     | DA3      |
| IOB5     | DA4      |
| IOB4     | DA5      |
| IOB3     | DA6      |
| IOB2     | DA7      |
| IOB1     | BC1      |
| IOB0     | BC2      |
| IOA7     | BDIR     |
| IOA6     | TEST 2   |
| IOA5     | A8       |
| IOA4     | A9       |
| IOA3     | RESET    |
| IOA2     | CLOCK    |
| IOA1     | IOA0     |

U?  
MCP23S17

|      |       |
|------|-------|
| GPB0 | GPB7  |
| GPB1 | GPB6  |
| GPB2 | GPB5  |
| GPB3 | GPB4  |
| GPB4 | GPB3  |
| GPB5 | GPB2  |
| GPB6 | GPB1  |
| GPB7 | GPB0  |
| VCC  | INTB  |
| GND  | INTA  |
| CS   | RESET |
| SCK  | A2    |
| SI   | A1    |
| SO   | A0    |

U?  
MT5C1008

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

U?  
TMS4464

|     |     |
|-----|-----|
| G   | VCC |
| DQ1 | DQ4 |
| DQ2 | CS  |
| W   | DQ3 |
| RAS | A0  |
| A6  | A1  |
| A5  | A2  |
| A4  | A3  |
| GND | A7  |

U?  
V9958

|            |       |
|------------|-------|
| GND        | XTAL2 |
| DHCLK      | XTAL1 |
| DLCLK      | RAS   |
| VRESET     | CAS2  |
| HSTYNC     | CAS1  |
| CSYNC      | CASX  |
| BLEO       | VCC   |
| CPUCLK/VDS | WR    |
| RESET      | AD7   |
| YS         | AD6   |
| CSBR       | AD5   |
| C7         | AD4   |
| C6         | AD3   |
| C5         | AD2   |
| C4         | AD1   |
| C3         | AD0   |
| C2         | RD7   |
| C1         | RD6   |
| C0         | RD5   |
| GND/DAC    | RD4   |
| VCC/DAC    | RD3   |
| G          | RD2   |
| R          | RD1   |
| S          | RD0   |
| INT        | CD0   |
| WAIT       | CD1   |
| HRESET     | CD2   |
| MODE1      | CD3   |
| MODE0      | CD4   |
| CSW        | CD5   |
| CSR        | CD6   |
| CD7        | VBB   |

U?  
Z80

|      |        |
|------|--------|
| A11  | A10    |
| A12  | A9     |
| A13  | A8     |
| A14  | A7     |
| A15  | A6     |
| CLK  | A5     |
| D4   | A4     |
| D3   | A3     |
| D5   | A2     |
| D6   | A1     |
| VCC  | A0     |
| D2   | GND    |
| D7   | RFSH   |
| D0   | M1     |
| D1   | RESET  |
| INT  | BUSRQ  |
| NMI  | WAIT   |
| HALT | BUSACK |
| MREQ | WR     |
| IORQ | RD     |