

Subsystem	Part #	Qty	Desc	Supplier	Notes
Enclosure	7328 White	3	12" x 12" x 3/6" White Acrylic Sheet	Etsy - Delvies Plastics	
Enclosure		1	12" x 12" x 1/16" Clear Plexiglass Acrylic Sheet	Etsy - Delvies Plastics	
Enclosure		1	Standoff Kit 6-32 Assorted	Amazon	
Enclosure	Deyue	18	Breadboard - Full Size 830 tie points	Amazon - Deyue	Use power strip on one side for buses
Enclosure	PateLie	18	Breadboard - Half Size 400 tie points	Amazon - PateLie Store	Use power strip on one side for buses
Wire	BOJACK 14 Vaules 840 pcs	4	Pre-cut Jumper Wires	Amazon	
Wire	ACEIRMC 4set 65pcs	2	Male-to-Male Jumper Wires	Amazon	
Wire		6	40-pin Jumper Ribbon Cables - 6", 8", 10"	Amazon	
Resistor	220 ohm	100	220 ohm	Jameco	
Resistor	330 ohm	100	330 ohm	Jameco	
Capacitor	0.01 uF	10	0.01 uF Electrolytic	Jameco	
Capacitor	0.01 uF	100	0.01 uf Ceramic bypass cap	Jameco	
Power Supply	HitLetgo 5pc 3.3V 5V	5	Breadboard Power Supply	Amazon	
Register - RS0	SN74HC273N	2	8-Bit register	Mouser	
Register - RS0	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Register - RS1	SN74HC273N	2	8-Bit register	Mouser	
Register - RS1	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Register - Rd	SN74HC273N	2	8-Bit register	Mouser	
Register - Rd	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Register - RS2	SN74HC273N	2	8-Bit register	Mouser	
Register - RS2	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Register - RS3	SN74HC273N	2	8-Bit register	Mouser	
Register - RS3	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Driver - Rd	SN74HC245N	2	8-Bit Bidirectional Line Driver	Mouser	
Driver - RS2	SN74HC245N	2	8-Bit Bidirectional Line Driver	Mouser	
Driver - RS3	SN74HC245N	2	8-Bit Bidirectional Line Driver	Mouser	
Register - Flags	SN74HC273N	1	8-Bit register	Mouser	
Register - Flags	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Output Module	SN74HC273N	2	8-Bit register	Mouser	
Output Module	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Output Module	SN74HC253N	2	Dual 4-line to 1-line data	Mouser	
Output Module	SN74HC161N	1	Hex synch. counter	Jameco	
Output Module	SN74LS139	1	Dual 2-to-4 line decoder	Jameco	
Output Module	AT28C16	1	16K (2Kx8) EEPROM	Jameco	
Output Module	CC-5461AS	1	Toplight 4-Digit 7-Segment Display	Jameco	
ALU	SN74AHCT04N	3	Hex inverter	Mouser	
ALU	SN74HC154N	1	4-line to 16-line Decoder	Jameco	
ALU	SN74AHCT08N	4	Quad 2-input AND	Mouser	
ALU	SN74HC148N	2	8-line to 3-line priority encoder	Mouser	
ALU	SN74HC245N	6	8-Bit Bidirectional Line Driver	Mouser	
ALU	SN74HC299N	2	8-Bit Shift Register	Mouser	
ALU	SN74AHCT32N	1	Quad 2-input OR	Mouser	
ALU	MC74F382N	4	4-Bit ALU	Amazon	
ALU	SN74HC688N	2	8-bit Identity Comparator	Mouser	
Branch Module	SN74LS153	1	Dual 4-line to 1-line data	Mouser	
Branch Module	SN74AHCT86N	1	Quad 2-input XOR	Mouser	
Branch Module	SN74AHCT04N	1	Hex inverter	Mouser	
Branch Register	SN74HC273N	2	8-Bit register	Mouser	
Branch Register	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Program Counter	SN74HC161N	4	Hex synch. counter	Jameco	
Program Memory	Arduino NANO	1	Arduino NANO	Amazon	
Program Memory	SN74AHCT04N	1	Hex inverter	Mouser	
Program Memory	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Program Memory	SN74HC595N	4	8-bit shift registers, Serial-In, Parallel-Out	Mouser	
Program Memory	SN74HC245N	6	8-Bit Bidirectional Line Driver	Mouser	
Program Memory	SN74LS157	1	quad 2-line to 1-line data selector	Mouser	
Program Memory	HM6116	2	2Kx8 RAM	Jameco	
IM Register	SN74HC273N	2	8-Bit register	Mouser	
IM Register	SN74AHCT08N	1	Quad 2-input AND	Mouser	
IM Register	SN74AHCT32N	1	Quad 2-input OR	Mouser	
Driver - IM	SN74HC245N	2	8-Bit Bidirectional Line Driver	Mouser	
RAM	HM6116	2	2Kx8 RAM	Jameco	
Decoder	SN74AHCT32N	1	Quad 2-input OR	Mouser	
Decoder	SN74HC244N	2	Octal buffer	Mouser	
Decoder	AT28C256	3	256K (32Kx8) EEPROM	Jameco	
Decoder	SN74LS138	2	3-to-8 line decoder	Mouser	
Decoder	SN74AHCT04N	2	Hex inverter	Mouser	
Clock Module	NE555	3	Timer	Mouser	
Clock Module	SN74AHCT04N	1	Hex inverter	Mouser	
Clock Module	SN74AHCT08N	1	Quad 2-input AND	Mouser	
Clock Module	SN74AHCT32N	1	Quad 2-input OR	Mouser	

Clock Module	1M Variable Resistor	1	1M ohm variable resistor	Jameco	
Clock Module	Mom. Switch	1	Breadboard momentary switch	Jameco	
Clock Module	Slide Switch	1	SPDT breadboard slide switch	Jameco	
Clock Module	LED	2	Yellow	Jameco	
Clock Module	LED	1	Blue	Jameco	