

George Washington University

Department of Electrical and Computer Engineering

ECE 2140 Design of Logic Systems I

<u>Device</u>	<u>Logic</u>	<u>Description</u>	<u>Function</u>	<u>Rating</u>	<u>Units</u>	<u>QTY</u>	<u>Vendor</u>	<u>SKU Part#</u>
1 74LS00	Digital-TTL	Quad 2-Input	Gate, NAND			2	Mouser	SN74LS00N
2 74HC04	Digital-CMOS	Hex	INVERTOR			2	Mouser	SN74HC04N
3 74LS11	Digital-TTL	Triple 3-Input	Gate, AND			1	Mouser	SN74LS11N
4 74LS08	Digital-TTL	Quad 2-Input	Gate, AND			2	Mouser	SN74LS08N
5 74LS32	Digital-TTL	Quad 2-Input	Gate, OR			2	Mouser	SN74LS32N
6 SN74LS47N	Digital-TTL	BCD to 7-Segment	Interface, Anode Decoder Driver			2	Mouser	595-SN74LS47N
7 SN74ALS109AN	Digital-TTL	Dual Positive Edge Triggered	Flip-Flop, J-K			2	Mouser	SN74ALS109AN
10 74ALS251	Digital-TTL	1-of-8 Data Selector	Multiplexer, Encoder, Decoder			2	Mouser	SN74ALS251N
11 74LS193N	Digital-TTL	Dual 4-Bit, Ripple	Counter, Binary Count Up			1	Mouser	SN74LS193N
12 CD4042BE	Digital-CMOS	Quad 2-Input	Latch, D-Type			2	Mouser	595-CD4042BE
13 ATF16V8CZ	PLD-CMOS	Programmable AND-ARRAY 64X32	EE CMOS PLD			1	Mouser	556-af16v8cz15pu
14 LM555	Linear	Precision	Timer			1	Mouser	LM555CMX/NOPB
15 SLX-LX5093ID	Red	LED	GaAIAs	20 mA		4	Mouser	SLX-LX5093ID
16 LTL-4231N	Green	LED	InGaAIP	20 mA		4	Mouser	859-LTL-4231N
17 HDSP-5501	Optical	Common Anode	Display, 7-Segment			2	Mouser	HDSP-5501
18 206-126	Hardware	DIP Switch	6-Position, SPDT			1	Mouser	206-126
20 10 Colors	Copper-Solid	22 gauge	Wire			1		