

**[4-Bit ALU] Bill-of-Materials BOM [v7.0]**

#	Category	Component Name / Value	Function / Specification	Qty	Unit Cost	Total Cost	Merchant Name	Source
1	ICs	74HC283	4 bit Binary Full Adder with Fast Carry - Original	1	28.00 .₪	28.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc283-ic-74283-4-bit-binary-full-adder-with-fast-carry-original-6445">https://www.ram-e-shop.com/shop/74hc283-ic-74283-4-bit-binary-full-adder-with-fast-carry-original-6445</a>
2	ICs	74HC08	Quad 2 input AND Gates - Original	1	15.00 .₪	15.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc08-original-ic-7408-quad-2-input-and-gates-original-6892">https://www.ram-e-shop.com/shop/74hc08-original-ic-7408-quad-2-input-and-gates-original-6892</a>
3	ICs	74HC32	Quad 2 Input OR Gate - Original	1	15.00 .₪	15.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc32-original-ic-7432-quad-2-input-or-gate-original-6201">https://www.ram-e-shop.com/shop/74hc32-original-ic-7432-quad-2-input-or-gate-original-6201</a>
4	ICs	74HC86	QUAD 2 INPUT NOR GATE - Original [Logic XOR, Subtraction, & Overflow Flag]	2	15.00 .₪	30.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc86-ic-7486-quad-2-input-exclusive-or-xor-gate-original-6166">https://www.ram-e-shop.com/shop/74hc86-ic-7486-quad-2-input-exclusive-or-xor-gate-original-6166</a>
5	ICs	CD4511	CD4511 - CMOS BCD to 7-Segment Latch Decoder Drivers	2	25.00 .₪	50.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/cd4511-cd4511-cmos-bcd-to-7-segment-latch-decoder-drivers-6058">https://www.ram-e-shop.com/shop/cd4511-cd4511-cmos-bcd-to-7-segment-latch-decoder-drivers-6058</a>
6	ICs	NE555P	NE555P - Timer IC - Original	2	8.00 .₪	16.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/ne555-original-ic-ne555p-timer-ic-original-5546">https://www.ram-e-shop.com/shop/ne555-original-ic-ne555p-timer-ic-original-5546</a>
7	ICs	74HC04	NOT Logic Inverter - Original	2	15.00 .₪	30.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc04-original-ic-7404-not-logic-inverter-original-6172">https://www.ram-e-shop.com/shop/74hc04-original-ic-7404-not-logic-inverter-original-6172</a>
8	ICs	74HC00	Quad 2 input NAND Gates - Original [Use for Zero Flag logic]	1	15.00 .₪	15.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc00-original-ic-7400-quad-2-input-nand-gates-original-6204">https://www.ram-e-shop.com/shop/74hc00-original-ic-7400-quad-2-input-nand-gates-original-6204</a>
9	ICs	74HC02	Quad 2 input NOR gates - Original [Use for Zero Flag logic]	1	15.00 .₪	15.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc02-ic-7402-quad-2-input-nor-gates-original-5646">https://www.ram-e-shop.com/shop/74hc02-ic-7402-quad-2-input-nor-gates-original-5646</a>
10	ICs	74HC153	Dual 4:1 Line Multiplexer - Original	2	25.00 .₪	50.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/74hc153-ic-74153-dual-4-to-1-line-multiplexer-original-6779">https://www.ram-e-shop.com/shop/74hc153-ic-74153-dual-4-to-1-line-multiplexer-original-6779</a>
11	Prototyping	Breadboard 830 Tie-points	M8102	2	35.00 .₪	70.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/breadboard-soldless-830-tie-points/">https://lampatronics.com/product/breadboard-soldless-830-tie-points/</a>
12	Prototyping	Breadboard 400 Tie-Point	400 tie points	2	25.00 .₪	50.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/breadboard-with-400-tie-point/">https://lampatronics.com/product/breadboard-with-400-tie-point/</a>
13	Prototyping	Jumper Wire 10cm	Male-to-Male (1 wire)	50	0.70 .₪	35.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-10cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-10cm-male-to-male-1-wire/</a>
14	Prototyping	Jumper Wire 20cm	Male-to-Male (1 wire)	50	0.75 .₪	37.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-20cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-20cm-male-to-male-1-wire/</a>
15	Prototyping	Jumper Wire 30cm	Male-to-Male (1 wire)	30	0.90 .₪	27.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-30cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-30cm-male-to-male-1-wire/</a>
16	Prototyping	Breadboard Wire U Shape	Shield Breadboard Jumper Wires (140 Wire)	2	50.00 .₪	100.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/u-shape-shield-breadboard-jumper-wires-140pcs/">https://lampatronics.com/product/u-shape-shield-breadboard-jumper-wires-140pcs/</a>
17	Prototyping	Buck Converter LM2596S (3A)	Step Down Voltage Converter 3A	1	45.00 .₪	45.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/lm2596s-3a-lm2596-4-39vdc-to-1-5-35vdc-sku-dc100-7257">https://www.ram-e-shop.com/shop/lm2596s-3a-lm2596-4-39vdc-to-1-5-35vdc-sku-dc100-7257</a>
18	Input/Output	TPP223 Touch Button	TPP223 Capacitive Touch Button Sensor Module	2	15.00 .₪	30.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/kit-touch-red-1-kit-touch-red-switch-8098">https://www.ram-e-shop.com/shop/kit-touch-red-1-kit-touch-red-switch-8098</a>
19	Input/Output	DIP Switch 1 Way	1-way (Inputs A, B, oopcode, Write Enable A, B)	2	3.00 .₪	6.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/dip-1way-dip-switch-1-way-6037">https://www.ram-e-shop.com/shop/dip-1way-dip-switch-1-way-6037</a>
20	Input/Output	DIP Switch 2 Way	2-way (Inputs A, B, oopcode, Write Enable A, B)	2	4.00 .₪	8.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/dip-2way-dip-switch-2-way-6247">https://www.ram-e-shop.com/shop/dip-2way-dip-switch-2-way-6247</a>
21	Input/Output	DIP Switch 4-way	4-way (Inputs A, B, oopcode, Write Enable A, B)	4	5.00 .₪	20.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/dip-4way-dip-switch-4-way-6020">https://www.ram-e-shop.com/shop/dip-4way-dip-switch-4-way-6020</a>
22	Input/Output	LED Orange B1010G	4-bit OUTPUT (Result)	6	1.50 .₪	9.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/s-b1010g-led-light-bar-orange-b1010g-8751">https://www.ram-e-shop.com/shop/s-b1010g-led-light-bar-orange-b1010g-8751</a>
23	Input/Output	LED Yellow KB2755YW	Zero & Sign Flags	4	1.50 .₪	6.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/s-kb2755yw-led-light-bar-yellow-kb2755yw-8750">https://www.ram-e-shop.com/shop/s-kb2755yw-led-light-bar-yellow-kb2755yw-8750</a>
24	Input/Output	LED Red KB2655EW	Carry & Overflow Flags	4	1.50 .₪	6.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/s-kb2655ew-led-light-bar-red-kb2655ew-8749">https://www.ram-e-shop.com/shop/s-kb2655ew-led-light-bar-red-kb2655ew-8749</a>
25	Input/Output	LED Blue B1010UB	Flags Spare	3	1.50 .₪	4.50 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/s-b1010ub-led-light-bar-blue-b1010ub-8753">https://www.ram-e-shop.com/shop/s-b1010ub-led-light-bar-blue-b1010ub-8753</a>
26	Input/Output	LED Spacer Mount (Length: 7mm)	C, O, Z, S Flags and Power Indicator	10	0.30 .₪	3.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/led-spacer-mount-length-7mm/">https://lampatronics.com/product/led-spacer-mount-length-7mm/</a>
27	Input/Output	LED Spacer Mount (Length: 11mm)	C, O, Z, S Flags and Power Indicator	10	0.35 .₪	3.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/led-spacer-mount-length-11mm/">https://lampatronics.com/product/led-spacer-mount-length-11mm/</a>
28	Input/Output	LED 3MM Clear (Red)	Power Indicator, Control Unit Status. (Show which Opcode is active).	5	0.50 .₪	2.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-red/">https://lampatronics.com/product/led-3mm-red/</a>
29	Input/Output	LED 3MM Clear (Green)	Power Indicator, Control Unit Status. (Show which Opcode is active).	5	0.50 .₪	2.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-green/">https://lampatronics.com/product/led-3mm-green/</a>
30	Input/Output	LED 3mm (Yellow)	Clock ticks	5	0.50 .₪	2.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-yellow/">https://lampatronics.com/product/led-3mm-yellow/</a>
31	Input/Output	7-Segment Common CATHODE 0.5"	Single Digit 7 Segment 0.5 inch Com.Cathode -RED	2	4.25 .₪	8.50 .₪	Lampatronic	<a href="https://lampatronics.com/product/single-digit-7-segment-0-5-inch-com-cathode-red/">https://lampatronics.com/product/single-digit-7-segment-0-5-inch-com-cathode-red/</a>
32	Input/Output	Resistor Network 220x 4	5pins	3	3.00 .₪	9.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-220-5pin-resistor-network-220x-4-5-pins-6815">https://www.ram-e-shop.com/shop/resistor-array-220-5pin-resistor-network-220x-4-5-pins-6815</a>
33	Input/Output	Resistor Network 2200 x 8	9pins	1	4.00 .₪	4.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-2200x8pins-6817">https://www.ram-e-shop.com/shop/resistor-array-2200x8pins-6817</a>
34	Input/Output	Resistor Network 1Kx 4	Spins	1	3.00 .₪	3.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-1kx4pins-6814">https://www.ram-e-shop.com/shop/resistor-array-1kx4pins-6814</a>
35	Input/Output	Resistor Network 10Kx 4	5pins	5	3.00 .₪	15.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-10kx4pins-6913">https://www.ram-e-shop.com/shop/resistor-array-10kx4pins-6913</a>
36	Input/Output	Resistor Network 10Kx 8	9pins	2	4.00 .₪	8.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-10kx8pins-5802">https://www.ram-e-shop.com/shop/resistor-array-10kx8pins-5802</a>
37	Input/Output	Resistor 330 Ohm	330 Ohm 1/4W (2pcs/1qty) (LED limit)	10	0.30 .₪	3.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/resistor-330-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-330-ohm-1-4w-4pcs/</a>
38	Input/Output	Resistor 1K Ohm	1K ohm -1/4W (2pcs/1qty) (For Clock circuit)	10	0.30 .₪	3.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/resistor-1k-ohm-1-4w-2pcs/">https://lampatronics.com/product/resistor-1k-ohm-1-4w-2pcs/</a>
39	Input/Output	Resistor 10K Ohm	10k Ohm 1/4W (2pcs/1qty) (Pull-up/down)	20	0.30 .₪	6.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/resistor-10k-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-10k-ohm-1-4w-4pcs/</a>
40	Input/Output	Resistor 470K Ohm	470K ohm -1/4W (2pcs/1qty) (Sets Pulse length)	10	0.30 .₪	3.00 .₪	Lampatronic	<a href="https://lampatronics.com/product/resistor-470k-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-470k-ohm-1-4w-4pcs/</a>
41	Input/Output	Top Pot 100K Ohm	Top Adjust Potentiometer 100KΩ	2	2.50 .₪	5.00 .₪	RAM	<a href="https://www.ram-e-shop.com/shop/not-100k-small-top-adjust-potentiometer-100ko-5838">https://www.ram-e-shop.com/shop/not-100k-small-top-adjust-potentiometer-100ko-5838</a>
		Subtotal			900.00 .₪			
		GRAND TOTAL			900.00 .₪			

**[4-Bit ALU] Bill-of-Materials BOM [v7.1]**

#	Category	Component Name / Value	Function / Specification	Qty	Unit Cost	Total Cost	Merchant Name	Source
11	Prototyping	Breadboard 830 Tie-points	MB102	2	35.00 ₦,₮	70.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/breadboard-soldless-830-tie-points/">https://lampatronics.com/product/breadboard-soldless-830-tie-points/</a>
12	Prototyping	Breadboard 400 Tie-Point	400 tie points	2	25.00 ₦,₮	50.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/breadboard-with-400-tie-point/">https://lampatronics.com/product/breadboard-with-400-tie-point/</a>
13	Prototyping	Jumper Wire 10cm	Male-to-Male (1 wire)	50	0.70 ₦,₮	35.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-10cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-10cm-male-to-male-1-wire/</a>
14	Prototyping	Jumper Wire 20cm	Male-to-Male (1 wire)	50	0.75 ₦,₮	37.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-20cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-20cm-male-to-male-1-wire/</a>
15	Prototyping	Jumper Wire 30cm	Male-to-Male (1 wire)	30	0.90 ₦,₮	27.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/jumper-wire-30cm-male-to-male-1-wire/">https://lampatronics.com/product/jumper-wire-30cm-male-to-male-1-wire/</a>
16	Prototyping	Breadboard Wire U Shape	Shield Breadboard Jumper Wires (140 Wire)	2	50.00 ₦,₮	100.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/u-shape-shield-breadboard-jumper-wires-140pcs/">https://lampatronics.com/product/u-shape-shield-breadboard-jumper-wires-140pcs/</a>
26	Input/Output	LED Spacer Mount (Length: 7mm)	C, O, Z, S Flags and Power Indicator	10	0.30 ₦,₮	3.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/led-spacer-mount-length-7mm/">https://lampatronics.com/product/led-spacer-mount-length-7mm/</a>
27	Input/Output	LED Spacer Mount (Length: 11mm)	C, O, Z, S Flags and Power Indicator	10	0.35 ₦,₮	3.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/led-spacer-mount-length-11mm/">https://lampatronics.com/product/led-spacer-mount-length-11mm/</a>
28	Input/Output	LED 3MM Clear (Red)	Power Indicator, Control Unit Status. (Show which Opcode is active).	5	0.50 ₦,₮	2.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-red/">https://lampatronics.com/product/led-3mm-red/</a>
29	Input/Output	LED 3MM Clear (Green)	Power Indicator, Control Unit Status. (Show which Opcode is active).	5	0.50 ₦,₮	2.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-green/">https://lampatronics.com/product/led-3mm-green/</a>
30	Input/Output	LED 3mm (Yellow)	Clock ticks	5	0.50 ₦,₮	2.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/led-3mm-yellow/">https://lampatronics.com/product/led-3mm-yellow/</a>
31	Input/Output	7-Segment Common CATHODE 0.5"	Single Digit 7 Segment 0.5 inch Com.Cathode -RED	2	4.25 ₦,₮	8.50 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/single-digit-7-segment-0-5-inch-com-cathode-red/">https://lampatronics.com/product/single-digit-7-segment-0-5-inch-com-cathode-red/</a>
37	Input/Output	Resistor 330 Ohm	330 Ohm 1/4W (2pcs/1qty) (LED limit)	10	0.30 ₦,₮	3.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/resistor-330-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-330-ohm-1-4w-4pcs/</a>
38	Input/Output	Resistor 1K Ohm	1K ohm - 1/4W (2pcs/1qty) (For Clock circuit)	10	0.30 ₦,₮	3.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/resistor-1k-ohm-1-4w-2pcs/">https://lampatronics.com/product/resistor-1k-ohm-1-4w-2pcs/</a>
39	Input/Output	Resistor 10K Ohm	10K Ohm 1/4W (2pcs/1qty) (Pull-up/down)	20	0.30 ₦,₮	6.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/resistor-10k-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-10k-ohm-1-4w-4pcs/</a>
40	Input/Output	Resistor 470K Ohm	470K ohm - 1/4W (2pcs/1qty (Sets Pulse length)	10	0.30 ₦,₮	3.00 ₦,₮	Lampatronic	<a href="https://lampatronics.com/product/resistor-470k-ohm-1-4w-4pcs/">https://lampatronics.com/product/resistor-470k-ohm-1-4w-4pcs/</a>
<b>GRAND TOTAL</b>					<b>357.00 ₦,₮</b>			

**[4-Bit ALU] Bill-of-Materials BOM [v7.2]**

#	Category	Component Name / Value	Function / Specification	Qty	Unit Cost	Total Cost	Merchant Name	Source
1	ICs	74HC283	4 bit Binary Full Adder with Fast Carry - Original	1	28.00 ₦	28.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc283-ic-74283-4-bit-binary-full-adder-with-fast-carry-original-6445">https://www.ram-e-shop.com/shop/74hc283-ic-74283-4-bit-binary-full-adder-with-fast-carry-original-6445</a>
2	ICs	74HC08	Quad 2 input AND Gates - Original	1	15.00 ₦	15.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc08-original-ic-7408-quad-2-input-and-gates-original-6892">https://www.ram-e-shop.com/shop/74hc08-original-ic-7408-quad-2-input-and-gates-original-6892</a>
3	ICs	74HC32	Quad 2 Input OR Gate - Original	1	15.00 ₦	15.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc32-original-ic-7432-quad-2-input-or-gate-original-6201">https://www.ram-e-shop.com/shop/74hc32-original-ic-7432-quad-2-input-or-gate-original-6201</a>
4	ICs	74HC86	QUAD 2 INPUT XOR GATE - Original [Logic XOR, Subtraction, & Overflow Flag]	2	15.00 ₦	30.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc86-ic-7486-quad-2-input-exclusive-or-xor-gate-original-6166">https://www.ram-e-shop.com/shop/74hc86-ic-7486-quad-2-input-exclusive-or-xor-gate-original-6166</a>
5	ICs	CD4511	CMOS BCD to 7-Segment Latch Decoder Drivers	2	25.00 ₦	50.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/cd4511-cd4511-cmos-bcd-to-7-segment-latch-decoder-drivers-6058">https://www.ram-e-shop.com/shop/cd4511-cd4511-cmos-bcd-to-7-segment-latch-decoder-drivers-6058</a>
6	ICs	NE555P	NE555P - Timer IC - Original	2	8.00 ₦	16.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/ne555p-original-ic-ne555p-timer-ic-original-5546">https://www.ram-e-shop.com/shop/ne555p-original-ic-ne555p-timer-ic-original-5546</a>
7	ICs	74HC04	NOT Logic Inverter - Original	2	15.00 ₦	30.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc04-original-ic-7404-not-logic-inverter-original-6172">https://www.ram-e-shop.com/shop/74hc04-original-ic-7404-not-logic-inverter-original-6172</a>
8	ICs	74HC00	Quad 2 input NAND Gates - Original [Use for Zero Flag logic]	1	15.00 ₦	15.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc00-original-ic-7400-quad-2-input-nand-gates-original-6204">https://www.ram-e-shop.com/shop/74hc00-original-ic-7400-quad-2-input-nand-gates-original-6204</a>
9	ICs	74HC02	Quad 2 input NOR gates - Original [Use for Zero Flag logic]	1	15.00 ₦	15.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc02-ic-7402-quad-2-input-nor-gates-original-5646">https://www.ram-e-shop.com/shop/74hc02-ic-7402-quad-2-input-nor-gates-original-5646</a>
10	ICs	74HC153	Dual 4:1 Line Multiplexer - Original	2	25.00 ₦	50.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/74hc153-ic-74153-dual-4-to-1-line-multiplexer-original-6779">https://www.ram-e-shop.com/shop/74hc153-ic-74153-dual-4-to-1-line-multiplexer-original-6779</a>
17	Prototyping	Buck Converter LM2596S (3A)	Step Down Voltage Converter 3A	1	45.00 ₦	45.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/lc-dc-100-dc-dc-step-down-voltage-converter-adjustable-3a-lm2596s-4-38vdc-to-1-5-35vdc-sku-dc100-7257">https://www.ram-e-shop.com/shop/lc-dc-100-dc-dc-step-down-voltage-converter-adjustable-3a-lm2596s-4-38vdc-to-1-5-35vdc-sku-dc100-7257</a>
18	Input/Output	TPP223 Touch Button	TPP223 Capacitive Touch Button Sensor Module	2	15.00 ₦	30.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/kit-touch-red-1-kit-touch-red-switch-8098">https://www.ram-e-shop.com/shop/kit-touch-red-1-kit-touch-red-switch-8098</a>
19	Input/Output	DIP Switch 1 Way	1-way (Inputs A, B, opcode, Write Enable A, B)	2	3.00 ₦	6.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/dip-1way-dip-switch-1-way-6037">https://www.ram-e-shop.com/shop/dip-1way-dip-switch-1-way-6037</a>
20	Input/Output	DIP Switch 2 Way	2-way (Inputs A, B, opcode, Write Enable A, B)	2	4.00 ₦	8.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/dip-2way-dip-switch-2-way-6247">https://www.ram-e-shop.com/shop/dip-2way-dip-switch-2-way-6247</a>
21	Input/Output	DIP Switch 4-way	4-way (Inputs A, B, opcode, Write Enable A, B)	4	5.00 ₦	20.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/dip-4way-dip-switch-4-way-6020">https://www.ram-e-shop.com/shop/dip-4way-dip-switch-4-way-6020</a>
22	Input/Output	LED Orange B1010G	4-bit OUTPUT (Result)	6	1.50 ₦	9.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/7s-b1010g-led-light-bar-orange-b1010g-8751">https://www.ram-e-shop.com/shop/7s-b1010g-led-light-bar-orange-b1010g-8751</a>
23	Input/Output	LED Yellow KB2755YW	Zero & Sign Flags	4	1.50 ₦	6.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/7s-kb2755yw-led-light-bar-yellow-kb2755yw-8750">https://www.ram-e-shop.com/shop/7s-kb2755yw-led-light-bar-yellow-kb2755yw-8750</a>
24	Input/Output	LED Red KB2655EW	Carry & Overflow Flags	4	1.50 ₦	6.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/7s-kb2655ew-led-light-bar-red-kb2655ew-8749">https://www.ram-e-shop.com/shop/7s-kb2655ew-led-light-bar-red-kb2655ew-8749</a>
25	Input/Output	LED Blue B1010UB	Flags Spare	3	1.50 ₦	4.50 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/7s-b1010ub-led-light-bar-blue-b1010ub-8753">https://www.ram-e-shop.com/shop/7s-b1010ub-led-light-bar-blue-b1010ub-8753</a>
32	Input/Output	Resistor Network 220Ω x 4	Spins	3	3.00 ₦	9.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-220-spin-resistor-network-220o-x-4-spins-6815">https://www.ram-e-shop.com/shop/resistor-array-220-spin-resistor-network-220o-x-4-spins-6815</a>
33	Input/Output	Resistor Network 220Ω x 8	9pins	1	4.00 ₦	4.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-220-resistor-network-220o-x-8-pins-6817">https://www.ram-e-shop.com/shop/resistor-array-220-resistor-network-220o-x-8-pins-6817</a>
34	Input/Output	Resistor Network 1KΩ x 4	Spins	1	3.00 ₦	3.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-1k-spin-resistor-network-1ko-x-4-spins-6814">https://www.ram-e-shop.com/shop/resistor-array-1k-spin-resistor-network-1ko-x-4-spins-6814</a>
35	Input/Output	Resistor Network 10KΩ x 4	5pins	5	3.00 ₦	15.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-10k-spin-resistor-network-10ko-x-4-5pins-6813">https://www.ram-e-shop.com/shop/resistor-array-10k-spin-resistor-network-10ko-x-4-5pins-6813</a>
36	Input/Output	Resistor Network 10KΩ x 8	9pins	2	4.00 ₦	8.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/resistor-array-10k-resistor-network-10ko-x-8-9pins-5802">https://www.ram-e-shop.com/shop/resistor-array-10k-resistor-network-10ko-x-8-9pins-5802</a>
41	Input/Output	Top Pot 100K Ohm	Top Adjust Potentiometer 100KO	2	2.50 ₦	5.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/not-100k-small-top-adjust-potentiometer-100ko-5838">https://www.ram-e-shop.com/shop/not-100k-small-top-adjust-potentiometer-100ko-5838</a>
42	Power/Misc	Capacitor Ceramic 0.1uF (104)	0.1µF (Decoupling)	40	0.25 ₦	10.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/c-pf-104-ceramic-capacitor-pf104-100nf-25v-6240">https://www.ram-e-shop.com/shop/c-pf-104-ceramic-capacitor-pf104-100nf-25v-6240</a>
43	Power/Misc	Capacitor Electrolytic 10uf 25v	Local Bulk (one/power_rail)	10	0.75 ₦	7.50 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/c-10uf25v-capacitor-10uf-25v-6095">https://www.ram-e-shop.com/shop/c-10uf25v-capacitor-10uf-25v-6095</a>
44	Power/Misc	Capacitor Electrolytic 1000uf 25v	System Bulk	5	2.00 ₦	10.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/c-1000uf25v-capacitor-1000uf-25v-6102">https://www.ram-e-shop.com/shop/c-1000uf25v-capacitor-1000uf-25v-6102</a>
45	Power/Misc	Battery 9V TOSHIBA	MADE IN JAPAN	1	45.00 ₦	45.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/battery9v-toshiba-battery-9v-toshiba-8761">https://www.ram-e-shop.com/shop/battery9v-toshiba-battery-9v-toshiba-8761</a>
46	Power/Misc	Battery Case	Battery Case 9V + On/Off Switch	1	28.00 ₦	28.00 ₦	RAM	<a href="https://www.ram-e-shop.com/shop/battery-case-9v-onoff-battery-case-9v-on-off-switch-7051">https://www.ram-e-shop.com/shop/battery-case-9v-onoff-battery-case-9v-on-off-switch-7051</a>
<b>GRAND TOTAL</b>					<b>543.00 ₦</b>			