

Source: ...\\Gata Access Control\\Gate Access Control.kicad\_sch  
Date: 14/01/2024

Component Count:	20
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S.I. No.	Reference	Quantity	Value	Component Name	Footprint	Description	Vendor	Component Cost			PCB Cost			Link
								Unit Cost (1 szt)	Unit Cost (10 szt)	Unit Cost (100 szt)	Cost (1 PCB)	Cost (10 PCB)	Cost (100 PCB)	
1	C1, C2	2	22pF	C	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	Unpolarized capacitor	Mouser.pl	0.935 zł	0.612 zł	0.315 zł	1.87 zł	12.24 zł	63.00 zł	<a href="https://www.mouser.pl/ProductDetail/KYOCERA-AVX/0805YA220JAT2A?qs=sGAEpiMZZMukHu%252BjCSj7Ye7%2FkxYe8IB13FttLTqU0E%3D">https://www.mouser.pl/ProductDetail/KYOCERA-AVX/0805YA220JAT2A?qs=sGAEpiMZZMukHu%252BjCSj7Ye7%2FkxYe8IB13FttLTqU0E%3D</a>
2	C3	1	100nF	C	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	Unpolarized capacitor	Mouser.pl	0.773 zł	0.511 zł	0.258 zł	0.77 zł	5.11 zł	25.80 zł	<a href="https://www.mouser.pl/ProductDetail/KYOCERA-AVX/08055C104J4T2A?qs=sGAEpiMZZMukHu%252BjCSj7YYQ8%2F0avqLlRcRPavdP56PE%3D">https://www.mouser.pl/ProductDetail/KYOCERA-AVX/08055C104J4T2A?qs=sGAEpiMZZMukHu%252BjCSj7YYQ8%2F0avqLlRcRPavdP56PE%3D</a>
3	D1	1	LED	LED	LED_SMD:LED_0603_1608Metric_Pad1.05x0.95mm_HandSolder	Light emitting diode	Mouser.pl	1.940 zł	1.210 zł	0.699 zł	1.94 zł	12.10 zł	69.90 zł	<a href="https://www.mouser.pl/ProductDetail/Broadcom-Avago/ASCKCW01-NW3X3F1H302?qs=OcgtSxO%252B3gtzS8HV1a3Bw%3D%3D">https://www.mouser.pl/ProductDetail/Broadcom-Avago/ASCKCW01-NW3X3F1H302?qs=OcgtSxO%252B3gtzS8HV1a3Bw%3D%3D</a>
4	F1	1	500 mA	Polyfuse	Fuse:Fuse_0603_1608Metric_Pad1.05x0.95mm_HandSolder	Resettable fuse, polymeric positive temperature coeff	Mouser.pl	0.730 zł	0.621 zł	0.511 zł	0.73 zł	6.21 zł	51.10 zł	<a href="https://www.mouser.pl/ProductDetail/Bussmann-Eaton/PTS06039V020?qs=aP1CjGhNiFHaAU1CyPiWQ%3D%3D">https://www.mouser.pl/ProductDetail/Bussmann-Eaton/PTS06039V020?qs=aP1CjGhNiFHaAU1CyPiWQ%3D%3D</a>
5	J1	1	Screw_Terminal_01x02	Screw_Terminal_01x02	TerminalBlock_MetzConnect:TerminalBlock_MetzConnect_Type175_RT02702	Generic screw terminal, single row, 01x02, script gener	Mouser.pl	10.230 zł	10.230 zł	8.570 zł	10.23 zł	102.30 zł	857.00 zł	<a href="https://www.mouser.pl/ProductDetail/Phoenix-Contact/1731022?qs=sGAEpiMZZMvPvGwLNS6718PaoTt7FM7CTG%252BvBorjbNc%3D">https://www.mouser.pl/ProductDetail/Phoenix-Contact/1731022?qs=sGAEpiMZZMvPvGwLNS6718PaoTt7FM7CTG%252BvBorjbNc%3D</a>
6	J2	1	RF Receiver 433MHz	RF_Receiver_433	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical	Pin Header	Mouser.pl	4.100 zł	3.340 zł	3.010 zł	4.10 zł	33.40 zł	301.00 zł	<a href="https://www.mouser.pl/ProductDetail/Molex/90120-0763?qs=BLN8Q0P37WbEQIeRCrCtQ%3D%3D">https://www.mouser.pl/ProductDetail/Molex/90120-0763?qs=BLN8Q0P37WbEQIeRCrCtQ%3D%3D</a>
7	J3	1	Conn_01x08	Conn_01x08	Connector_PinHeader_2.54mm:PinHeader_1x08_P2.54mm_Vertical	Generic connector, single row, 01x08, script generated	Mouser.pl	2.840 zł	2.370 zł	2.200 zł	2.84 zł	23.70 zł	220.00 zł	<a href="https://www.mouser.pl/ProductDetail/Molex/90120-0128?qs=sGAEpiMZZMvIX3nhDDO4AlmA0rOnEzc5zC8hpwicJqQ%3D">https://www.mouser.pl/ProductDetail/Molex/90120-0128?qs=sGAEpiMZZMvIX3nhDDO4AlmA0rOnEzc5zC8hpwicJqQ%3D</a>
8	J4	1	IR_SENSORT	IR_SENSOR	TerminalBlock_Phoenix:TerminalBlock_Phoenix_MKDS-1,5-3-5.08_1x03_P5.08	Screw Terminal	Mouser.pl	5.420 zł	3.260 zł	2.880 zł	5.42 zł	32.60 zł	288.00 zł	<a href="https://www.mouser.pl/ProductDetail/Weidmuller/1716090000?qs=BTG2th8YmhRwtITHzuCKAQ%3D%3D">https://www.mouser.pl/ProductDetail/Weidmuller/1716090000?qs=BTG2th8YmhRwtITHzuCKAQ%3D%3D</a>
9	J5	1	Screw_Terminal_01x04	Screw_Terminal_01x04	TerminalBlock_Phoenix:TerminalBlock_Phoenix_MKDS-1,5-4-5.08_1x04_P5.08	Generic screw terminal, single row, 01x04, script gener	Mouser.pl	9.570 zł	9.220 zł	8.220 zł	9.57 zł	92.20 zł	822.00 zł	<a href="https://www.mouser.pl/ProductDetail/Phoenix-Contact/1888700?qs=uD%2FdkN7Kla178%2FYtgCWHbg%3D%3D">https://www.mouser.pl/ProductDetail/Phoenix-Contact/1888700?qs=uD%2FdkN7Kla178%2FYtgCWHbg%3D%3D</a>
10	J6, J7	2	Screw_Terminal_01x02	Screw_Terminal_01x02	TerminalBlock_Phoenix:TerminalBlock_Phoenix_MKDS-1,5-2-5.08_1x02_P5.08	Generic screw terminal, single row, 01x02, script gener	Mouser.pl	4.850 zł	4.500 zł	4.000 zł	9.70 zł	90.00 zł	800.00 zł	<a href="https://www.mouser.pl/ProductDetail/Phoenix-Contact/1729128?qs=GFUsqQMLmmnCBVBY3dts9w%3D%3D">https://www.mouser.pl/ProductDetail/Phoenix-Contact/1729128?qs=GFUsqQMLmmnCBVBY3dts9w%3D%3D</a>
11	J8	1	Conn_01x06	Conn_01x06	Connector_PinHeader_2.54mm:PinHeader_1x06_P2.54mm_Vertical	Generic connector, single row, 01x06, script generated	Mouser.pl	7.250 zł	6.120 zł	5.070 zł	7.25 zł	61.20 zł	507.00 zł	<a href="https://www.mouser.pl/ProductDetail/Molex/90120-0766?qs=PvP5v7EimskFcAmG4v%252BboQ%3D%3D">https://www.mouser.pl/ProductDetail/Molex/90120-0766?qs=PvP5v7EimskFcAmG4v%252BboQ%3D%3D</a>
12	PS1	1	TMLM04253	TMLM04253	Converter_ACDC:Converter_ACDC_TRACO_TMLM-04_THT	5V 600mA / 3.3V 150mA AC/DC dual output, low noise	Mouser.pl	86.950 zł	81.900 zł	74.220 zł	86.95 zł	819.00 zł	7,422.00 zł	<a href="https://www.mouser.pl/ProductDetail/TRACO-Power/TMLM-04253?qs=ckJk83FOD0Wmhe7uo3j7yw%3D%3D">https://www.mouser.pl/ProductDetail/TRACO-Power/TMLM-04253?qs=ckJk83FOD0Wmhe7uo3j7yw%3D%3D</a>
13	R1, R2	2	1M	R	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	Resistor	Mouser.pl	2.410 zł	1.140 zł	0.898 zł	4.82 zł	22.80 zł	179.60 zł	<a href="https://www.mouser.pl/ProductDetail/Vishay-Beyschlag/MCT0603MD10048P500?qs=sGAEpiMZZMvdGkrng054t2cqbZCzJY7N7RvimGr082gbD6zsBSglFA%3D%3D">https://www.mouser.pl/ProductDetail/Vishay-Beyschlag/MCT0603MD10048P500?qs=sGAEpiMZZMvdGkrng054t2cqbZCzJY7N7RvimGr082gbD6zsBSglFA%3D%3D</a>
14	R3	1	10k	R	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	Resistor	Mouser.pl	0.431 zł	0.037 zł	0.023 zł	0.43 zł	0.37 zł	2.30 zł	<a href="https://www.mouser.pl/ProductDetail/Bourns/CR0603-FX-1002ELF?qs=sGAEpiMZZMtIubZbdhIBIB2EOCzLgwMl9GXOCnit%2Fjs%3D">https://www.mouser.pl/ProductDetail/Bourns/CR0603-FX-1002ELF?qs=sGAEpiMZZMtIubZbdhIBIB2EOCzLgwMl9GXOCnit%2Fjs%3D</a>
15	R4	1	220R	R	Resistor_SMD:R_0603_1608Metric_Pad0.98x0.95mm_HandSolder	Resistor	Mouser.pl	1.160 zł	0.532 zł	0.241 zł	1.16 zł	5.32 zł	24.10 zł	<a href="https://www.mouser.pl/ProductDetail/Panasonic/ERA-3AED221V?qs=sGAEpiMZZMtIubZbdhIBINESVvwz7C5t%2Fw4SSsxCA25U%3D">https://www.mouser.pl/ProductDetail/Panasonic/ERA-3AED221V?qs=sGAEpiMZZMtIubZbdhIBINESVvwz7C5t%2Fw4SSsxCA25U%3D</a>
16	U1	1	ATmega328-MM	ATmega328-MM	Package_DFN_QFN:QFN-28-1EP_4x4mm_P0.45mm_EP2.4x2.4mm	20MHz, 32kB Flash, 2kB SRAM, 1kB EEPROM, QFN-28	Mouser.pl	10.930 zł	10.930 zł	9.070 zł	10.93 zł	109.30 zł	907.00 zł	<a href="https://www.mouser.pl/ProductDetail/Microchip-Technology/ATMEGA328-MMH?qs=950R68cwx9ewrNkehJkitw%3D%3D">https://www.mouser.pl/ProductDetail/Microchip-Technology/ATMEGA328-MMH?qs=950R68cwx9ewrNkehJkitw%3D%3D</a>
17	Y1	1	Crystal	Crystal	Crystal:Crystal_SMD_Abracon_ABM3-2Pin_5.0x3.2mm	Two pin crystal, 16MHz	Mouser.pl	2.280 zł	1.700 zł	1.510 zł	2.28 zł	17.00 zł	151.00 zł	<a href="https://www.mouser.pl/ProductDetail/ABRACON/ABM3-16.000MHZ-D2Y-T?qs=ihRgKfnESN677SnbV81%2FxFQ%3D%3D">https://www.mouser.pl/ProductDetail/ABRACON/ABM3-16.000MHZ-D2Y-T?qs=ihRgKfnESN677SnbV81%2FxFQ%3D%3D</a>

	1 PCB		10 PCB		100 PCB	
	Total	Unit Cost	Total	Unit Cost	Total	Unit Cost
Total Component Cost:	160.99 zł	160.99 zł	1,444.85 zł	144.49 zł	12,690.80 zł	126.91 zł
PCB Production Cost:	17.32 zł	17.320 zł	32.11 zł	3.211 zł	224.67 zł	2.247 zł
SUM:	178.31 zł	178.31 zł	1,476.96 zł	147.70 zł	12,915.47 zł	129.15 zł

Note: Component cost may change slightly.