Saintcon 10x10 2024 BOM

Reference	Qty	Value	Footprint	Description	Link
C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16, C17,C18,C19,C20	20	10uF	Capacitor_SMD:C_0805_HandSoldering	Ceramic Capacitor	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL21A106KOQNNNE/3886754
C27	1	10uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/cal-chip-electronics-inc/GMC10X5R106M10NT/18151101
C23	1	1uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL10B105KP8NFNC/3887603
C25,C26,C28	3	0.1uF	Capacitor_SMD:C_0603_1608Metric	Ceramic Capacitor	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL10B104KB8NNWC/3887593
J1	1	Screw_Terminal_01x04	SparkFun-Connectors:SCREWTERMINAL-3.5MM-4	Generic Screw Terminal, 1x4, 3.5mm pitch	https://www.digikey.com/en/products/detail/on-shore-technology-inc/OSTTE040104/2351818
J2	1	USB_C_Receptacle_USB2.0	Connector_USB:USB_C_Receptacle_XKB_U262-16XN-4BVC11	USB-C Port	https://www.mouser.com/ProductDetail/640-USB4105-GF-A
R1,R2	2	5.1k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/bourns-inc/CR0603-FX-5101ELF/3784064
R4	1	8.45k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/stackpole-electronics-inc/RMCF0603FT8K45/1761242
R5	1	20k	Resistor_SMD:R_0603_1608Metric	0603 Resistor	https://www.digikey.com/en/products/detail/bourns-inc/CR0603-JW-203ELF/3741006
SW1	1	SW_DPDT_x2	libraries:MFS201N-9-Z	Switch, Double Pole Double Throw	https://www.mouser.com/ProductDetail/229-MFS201N-9-Z
SW2	1	SW_SP3T	C&KSlideSwitches:OS103011MS8QP1	Switch, Single Pole Triple Throw	https://www.mouser.com/ProductDetail/611-OS103011MS8QP1
U1,U2,U3,U4,U5,U6,U7,U8,U9,U10,U11,U12,U13,U14,U15,U16, U17,U18,U19,U20,U21,U22,U23,U24,U25,U26,U27,U28,U29,U30, U31,U32,U33,U34,U35,U36,U37,U38,U39,U40,U41,U42,U43,U44, U45,U46,U47,U48,U49,U50,U51,U52,U53,U54,U55,U56,U57,U58, U59,U60,U61,U62,U63,U64,U65,U66,U67,U68,U69,U70,U71,U72, U73,U74,U75,U76,U77,U78,U79,U80,U81,U82,U83,U84,U85,U86, U87,U88,U89,U90,U91,U92,U93,U94,U95,U96,U97,U98,U99,U100	100	SAINTCON-Minibadge	SaintconMinibadge10x10-2024:SAINTCON-Minibadge-Shiny-SmallHoles	Minibadge Slot - 2x 8-Pin Female Header, 0.1" Pitch (200 total headers)	https://www.aliexpress.us/item/2251832231088676.html
U101,U102,U103,U104,U105,U106,U107,U108,U109,U110	10	TLV1117LV33DCYR	TO_SOT_Packages_SMD:SOT-223-3_TabPin2	Voltage Regulator - 3.3V, 1A	https://www.mouser.com/ProductDetail/595-TLV1117LV33DCYR
U111,U112,U113,U114,U115	5	TPM8837C	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	Motor Driver (for driving the CLK pins)	https://www.digikey.com/en/products/detail/3peak/TPM8837C-SO1R/22229382
U116	1	74LV4060D,118	Package_SO:SOIC-16_3.9x9.9mm_P1.27mm	14-bit Binary Ripple Counter with Oscillator (generates CLK signal)	https://www.mouser.com/ProductDetail/771-74LV4060D-T
U117	1	74AHC1G04GV,125	Package_TO_SOT_SMD:SOT-23-5	Inverter	https://www.mouser.com/ProductDetail/771-AHC1G04GV125
U118	1	AP22818BKAWT	Package_TO_SOT_SMD:SOT-23-5	USB Load Switch (overcurrent/short circuit protection)	https://www.mouser.com/ProductDetail/Diodes-Incorporated/AP22818BKAWT-7?qs=7D1LtPJG0i00w4y0p06PMw%3D%3D