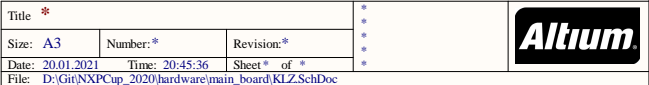
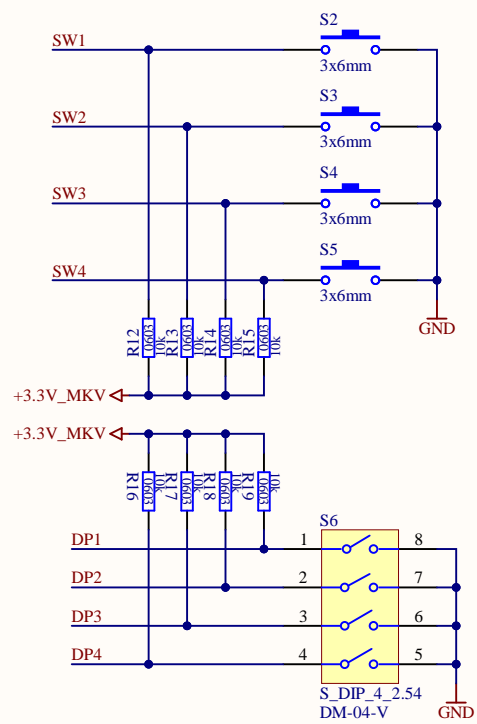
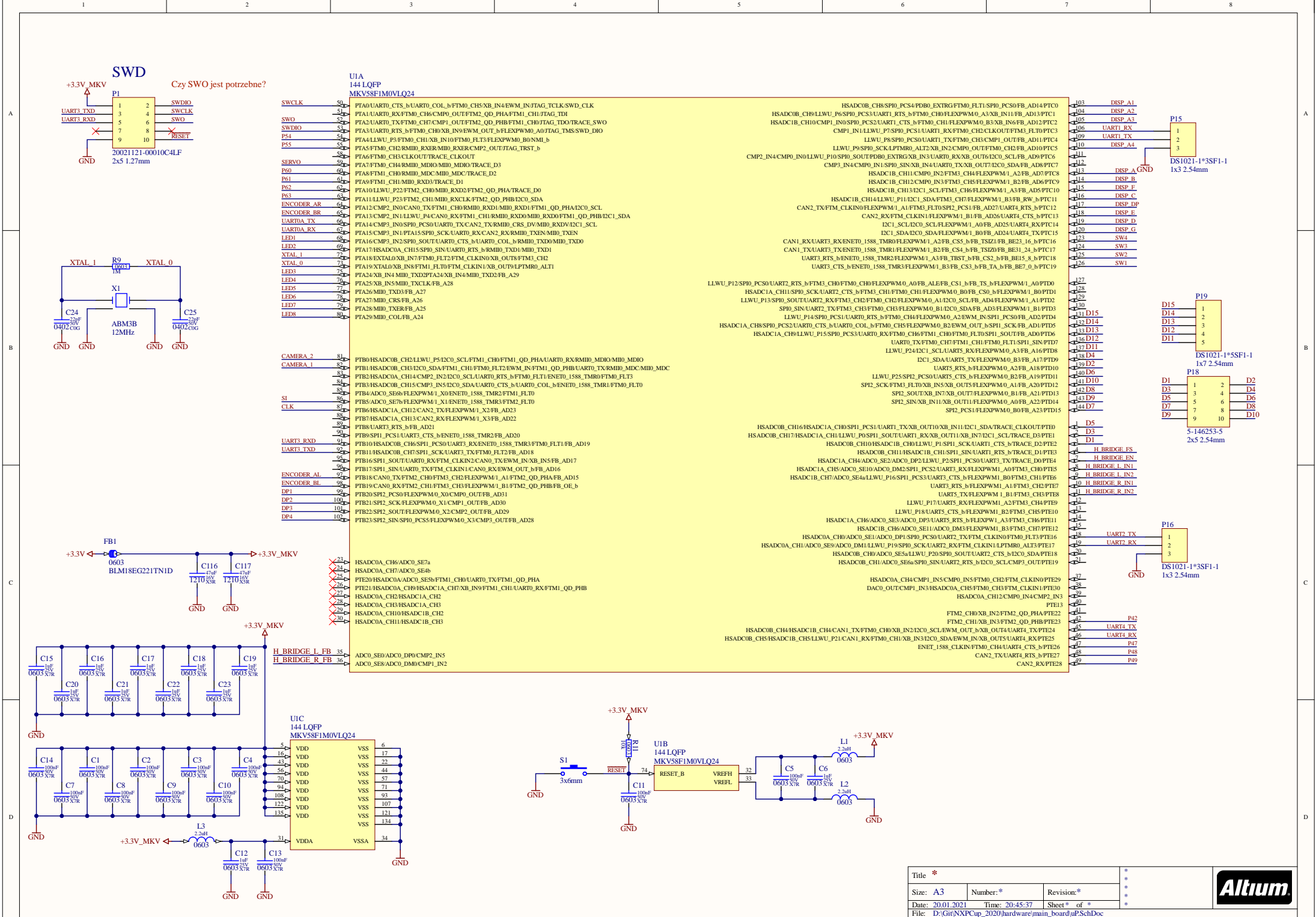


Title		
Size A4	Number	Revision
Date: 1.20.2021	Sheet of	
File: D:\Git\...\Display.SchDoc	Drawn By:	





Title		
Size A4	Number	Revision
Date:	1.20.2021	Sheet of
File:	D:\Git\...\Switches.SchDoc	Drawn By:





Comment	Description	Designator	Footprint	LibRef	Quantity
Ceramic XTR	Capacitor	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C26, C27, C33, C34, C35, C36, C37, C41, C45, C48, C51, C53, C56, C57, C58, C60, C61, C62, C65, C66, C68, C70, C72, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C88, C89, C90, C91, C94, C96, C97, C98, C99, C100, C101, C102, C103, C104, C106, C106, C107, C108, C110, C112, C113, C114	C_0603_1608	C_100nF_50V_X7R_0603_5, C_1uF_25V_X7R_0603_10, C_33nF_50V_X7R_0603_10	79
Ceramic COG	Capacitor	C24, C25, C86, C87	C_0402_1005	C_22pF_50V_COG_0402_5	4
Ceramic XSR	Capacitor	C28, C38, C42, C92, C109, C111	C_0603_1608	C_10uF_16V_X5R_0603_20	6
Ceramic COG	Capacitor	C29, C30, C31, C32, C39, C40	C_0603_1608	C_1nF_50V_COG_0603_5	6
Ceramic XSR	Capacitor	C43, C44, C54, C55, C63, C64, C85, C115, C116, C117	C_1210_3225	C_47uF_16V_X5R_1210_10	10
Tantalum Capacitor	Capacitor	C46, C50, C59, C67, C69, C71, C73, C93, C95	CT_1210_3225	CT_100uF_10V_TA205_1210_20	9
Electrolytic Capacitor	Polarized Capacitor	C47	CE_D_10x10MM	CE_100uF_50V_Polymer_10x10_20	1
Ceramic XTR	Capacitor	C49	C_1210_3225	C_2.2uF_100V_X7R_1210_10	1
Ceramic XTR	Capacitor	C52	C_0402_1005	C_22nF_16V_X7R_0402_10	1
4x7 SEG 0.28"		D1	LFD028BLUE-103A-01	OL_LFD028BLUE-103A-01	1
Green led	LED GREEN	D2, D3, D4, D5, D6, D7, D8, D9	OL_0603_1608	OL_G_0603_OSG06063C1E	8
Red led	LED_RED	D10	OL_0603_1608	OL_R_0603_OSR0603C1E	1
OL_G	LED GREEN	D11, D12, D13, D14, D15, D16, D17	OL_0603_1608	OL_G_0603_OC06_AP G1608CGKC/T	7
Ferrite bead	Ferrite Bead	FB1, FB2	FB_0603_1608	FB_BLM18EG221TN1D	2
ARK2	ARK Screw terminal, 2-Pin	J1, J2, J3	J_ARK2	J_TB-5.0-P-2P	3
Inductor	Induction	L1, L2, L3, L4, L5	L_0603_1608	L_2.2uH_130mA_0603	5
Jtag	Header, 10-Pin, Dual row	P1, P4	P_HEADER_2x5_1.27	P_HEADER_2x5_1.27	2
Goldpin	Header, 4-Pin	P2, P3, P11, P12, P13, P14, P20	P_HEADER_1x4_2.54	P_HEADER_1x4_2.54	7
Goldpin	Header, 10-Pin, Dual row	P5, P18	P_HEADER_2x5_2.54	P_HEADER_2x5_2.54	2
Goldpin	Header, 5-Pin	P6, P7, P19	P_HEADER_1x5_2.54	P_HEADER_1x5_2.54	3
Goldpin	Header, 3-Pin	P8, P15, P16, P17	P_HEADER_1x3_2.54	P_HEADER_1x3_2.54	4
Goldpin	Header, 2-Pin	P9, P10, P21, P22	P_HEADER_1x2_2.54	P_HEADER_1x2_2.54	4
BC857ALT1G	Transistor PNP	Q1, Q2, Q3, Q4	SOT23, TO236, SC59	QPN_BC857ALT1G	4
Resistor		R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R32, R34, R36, R38, R40, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R63, R64, R65, R66, R67, R68	R_0603_1608	R_200R_0603_1, R_1M_0603_1, R_330R_0603_1, R_10k_0603_1, R_1k_0603_1, R_18k_0603_1, R_560k_0603_0.1, R_649k_0603_1, R_52.3k_0603_1, R_4.7k_0603_1, R_220R_0603_1, R_24k_0603_1, R_100k_0603_1	61
Resistor		R31, R33, R35, R37, R39, R41	R_1206_3216	R_18k_1206_1	6
Resistor		R62	R_2512_6432	R_1R_2512_1	1
3x6mm	Tact Switch	S1, S2, S3, S4, S5	S_TACTSWITCH3x6	S_TACTSWITCH	5
DIP SWITCH 4 POS		S6	S_DIP_4_2.54	S_DM-04-V	1
DIP SWITCH 4 POS		S7	S_DIP_4_1.27	S_A6H-4101	1
S_SK5045P		S8	Switch_toggle	S_SK5045P	1
MKV58F1MDVLQ24	240 MHz Cortex-M7 based MCU for Real-time	U1	LQFP144_20x20	U_MKV58F1MDVLQ24	1
Single-Bit Dual-Supply Bus Transceiver	This single-bit noninverting bus transceiver uses two separate configurable power-supply rails. VCCA and VCCB accepts any supply voltage from 1.65 V to 5.5 V. DIR: low B-A, DIR: high A-B	U2, U14, U18, U20, U23, U24	SOT23-6, SC74A, SOT753	U_SN74LVC1T45DBVT	6
U_HC-06		U3, U15	BT_HC-06	U_HC-06	2
Single Buffer Gate		U4, U5, U16, U17, U19, U21, U22	SOT23-5, SC74A, SOT753, M, SOP16, SOT16, SOIC16-4X10X18	U_SN74LVC1G34_DBV, DCK_D8	7
74HC4050D.652		U6		U_74HC4050D.652	1
WPM1DU1251501	WPM1DU1251501	U7	BQFN41_11x9	V5_WPM1DU1251501	1
LD1117A550TR	Low-Dropout Positive Voltage Regulator	U8	SOT223, SC73	VL_LD1117A533TR_3V3_1A2	1
MC33887		U9, U11	HSOP20_16x11	U_MC33887_HSOP20	2
LD1117A533TR	Low-Dropout Positive Voltage Regulator	U10, U12	SOT223, SC73	VL_LD1117A533TR_3V3_1A2	2
NKL252128V1K4		U13	LQFP80_12x12	U_NKL252128V1K4	1
X_ABM3B		X1, X2	X_ABM3B, SX311	X_12V8H2_ABM3B	2