iCE40HX4K-TQ144 IC1

VCIO bypasses
VCC bypasses

1V2 VCC bypasses

GSB343T33HR J1

IC2 FT600Q-T

IC3 FT232HL

Y1 ABM3B-30MHZ
Y2 ASFL1-xx.xxx-L-T

K1 PMOD 6x2 FEMALE
K2 PMOD 6x2 FEMALE
K3 PMOD 6x2 FEMALE
K4 PMOD 6x2 FEMALE
K5 PMOD 6x2 FEMALE
K6 PMOD 6x2 FEMALE

LED1 CLVBA-FKA-CAEDH8BBB7A363
RED_(CATHODE)   BLUE_(CATHODE)
COMMON_ANODE   GREEN_(CATHODE)

PS1 AP2127N-3.3TRG1
PS2 AP2127N-1.2TRG1
PS3 AP2127N-1.8TRG1

SP4 "+1.2V"
SP5 "+1.8V"
SP3 "+5V"

IC4 93LC56BT-I_OT
IC5 W25X10CLSNIG

5V External, "5VE"
BOOSTER
U3
L9 10uH

Install R31 for bypassing booster
Use exlusively r31 or booster all

Horizontal links: FLASH prog
Vertical links: CRAM

Title

Size	Number		Revision
A3			
Date:	2.01.2022		Sheet of
File:	E:\my_work\..\ft600hx4k.SchDoc		Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
cap0603	Capacitor 0603 inch	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C31, C33, C35, C36, C37, C38, C39, C40, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69	SM0603 _3D_cap	cap0603	65
CAP_POL_SMA	CAP_POL_SMA(3216)	C30, C32, C34, C41	CAP_POL_SMA (3216)	CAP_POL_SMA	4
DiodeShottky_SOD323	SOD323	D1, D2, D3, D5	SOD323	DiodeShottky_SOD323	4
BAV99-7-F	Diode	D4	SOT95P240X120-3N	BAV99-7-F	1
LIGHT_SM0805		D6	SM0805_diode	LIGHT_SM0805	1
iCE40HX4K-TQ144	Integrated Circuit	IC1	QFP50P2200X2200X160-144N	iCE40HX4K-TQ144	1
FT600Q-T	Integrated Circuit	IC2	QFN40P700X700X90-57N-D	FT600Q-T	1
FT232HL	Integrated Circuit	IC3	QFP50P900X900X160-48N	FT232HL-REEL	1
93LC56BT-I_OT	Integrated Circuit	IC4	SOT95P270X145-6N	93LC56BT-I_OT	1
W25X10CLSNIG	Integrated Circuit	IC5	SOIC127P600X175-8N	W25X10CLSNIG	1
AD8331ARQZ	Integrated Circuit	IC6	SOP64P600X175-20N	AD8331ARQZ	1
AD9629BCPZ-65	Integrated Circuit	IC7	QFN50P500X500X100-33N	AD9629BCPZ-65	1
GSB343T33HR	Connector	J1	GSB343T33HR	GSB343T33HR	1
0476420001	Connector	J2	0476420001	0476420001	1
JUMPER2		JP1, JP2, JP3, JP4, JP5	JUMPER2	JUMPER2	5
PMOD_6x2_ra_female	PMOD_6x2_right_angle	K1, K2, K3, K4, K5, K6	PMOD_6x2_RA_FEMALE	PMOD_6x2_ra_female	6
SMA_Edge		K7	AMPHENOL_132357-11	SMA_Edge	1
75R@100MHz	chip inductance 0603	L1, L2, L3, L4, L5, L8	SM0603_3D_res		6
75R@100MHz	chip inductance	L6, L7	SM_0805_INDUCTANCE _3D		2
inductance SMT 3.2x4.5 mm	inductance SMT 3.2x4.5 mm	L9	inductor_LQH43PN	inductor_LQH43PN	1
CLVBA-FKA-CAEDH8BBB7A363	LED	LED1	CLVBAFKACAEDH8BBB7A363	CLVBA-FKA-CAEDH8BBB7A363	1
AP2127N-3.3TRG1	Power Supply	PS1	SOT89P240X110-3N	AP2127N-3.3TRG1	1
AP2127N-1.2TRG1	Power Supply	PS2	SOT89P240X110-3N	AP2127N-3.3TRG1	1
AP2127N-1.8TRG1	Power Supply	PS3	SOT89P240X110-3N	AP2127N-3.3TRG1	1
1k	Res_0603_EU	R1, R33	SM0603_3D_res		2
10k	Res_0603_EU	R2, R3, R4, R5, R6, R17, R18, R19, R26, R28, R29, R32	SM0603_3D_res		12
100	Res_0603_EU	R7, R8	SM0603_3D_res		2
1.6K,1%	Res_0603_EU	R9	SM0603_3D_res		1
22	Res_0603_EU	R10, R11	SM0603_3D_res		2
12k	Res_0603_EU	R12, R21	SM0603_3D_res		2
330	Res_0603_EU	R13, R14, R15	SM0603_3D_res		3
280	Res_0603_EU	R16	SM0603_3D_res		1
2k	Res_0603_EU	R20	SM0603_3D_res		1
84.5	Res_0603_EU	R22, R23	SM0603_3D_res		2
158	Res_0603_EU	R24, R25	SM0603_3D_res		2
100k	Res_0603_EU	R27	SM0603_3D_res		1
33k	Res_0603_EU	R30	SM0603_3D_res		1
4k7	Res_0603_EU	R31	SM0603_3D_res		1
SolderPad D1mm_round	for finger touch	SP1, SP2, SP3, SP4, SP5	SolderPad_D1mm _round	SolderPad D1mm_round	5
T/R switch		U1	SOT89-150P409X160-3N	MD0100N8-G	1
MCP4811-E_MS	Integrated Circuit	U2	SOP65P490X110-8N	MCP4811-E_MS	1
step up sot23-5	step up sot23-5	U3	SOT-23_5	TPS61040	1
ABM3B-30MHZ	Crystal or Oscillator	Y1	ABM3B	ABM3B-11.0592MHZ-10-1-U-T	1
ASFL1-xx.xxx-L-T	Crystal or Oscillator	Y2	ASFL125000MHZLT	ASFL1-25.000MHZ-L-T	1