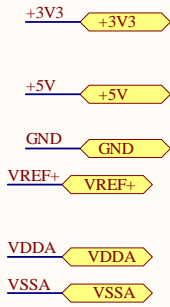
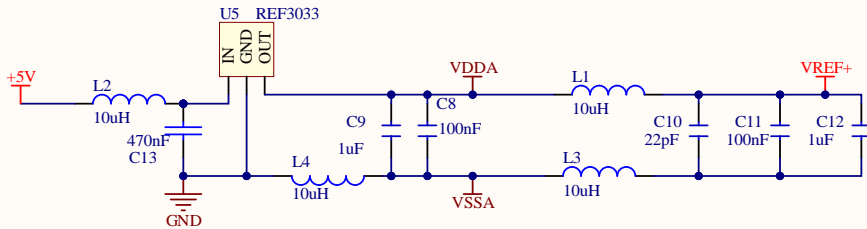
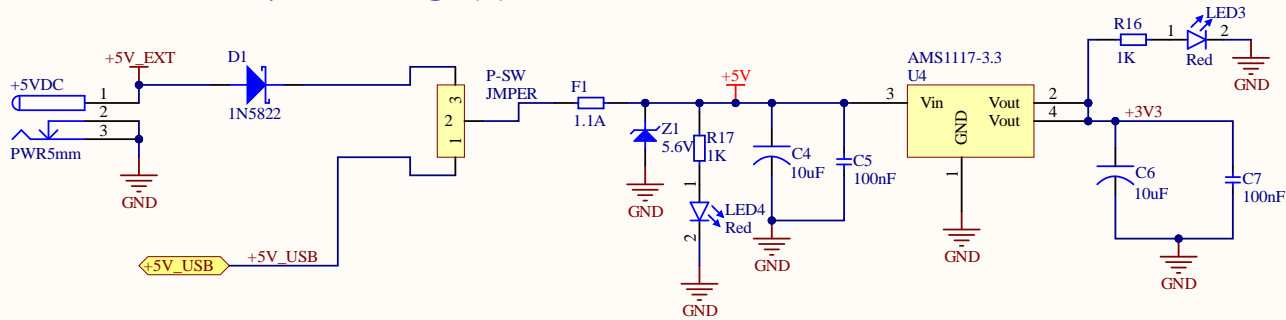


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EXTERNAL POWER



PC	PC+1	PC+2	PC+3	PC+4	PC+5	PC+6	PC+7	PC+8	PC+9	PC+10	PC+11	PC+12	PC+13	PC+14	PC+15	PC+16	PC+17	PC+18	PC+19	PC+20	PC+21	PC+22	PC+23	PC+24	PC+25	PC+26	PC+27	PC+28	PC+29	PC+30	PC+31	PC+32	PC+33	PC+34	PC+35	PC+36	PC+37	PC+38	PC+39	PC+40	PC+41	PC+42	PC+43	PC+44	PC+45	PC+46	PC+47	PC+48	PC+49	PC+50	PC+51	PC+52	PC+53	PC+54	PC+55	PC+56	PC+57	PC+58	PC+59	PC+60	PC+61	PC+62	PC+63	PC+64	PC+65	PC+66	PC+67	PC+68	PC+69	PC+70	PC+71	PC+72	PC+73	PC+74	PC+75	PC+76	PC+77	PC+78	PC+79	PC+80	PC+81	PC+82	PC+83	PC+84	PC+85	PC+86	PC+87	PC+88	PC+89	PC+90	PC+91	PC+92	PC+93	PC+94	PC+95	PC+96	PC+97	PC+98	PC+99	PC+100	PC+101	PC+102	PC+103	PC+104	PC+105	PC+106	PC+107	PC+108	PC+109	PC+110	PC+111	PC+112	PC+113	PC+114	PC+115	PC+116	PC+117	PC+118	PC+119	PC+120	PC+121	PC+122	PC+123	PC+124	PC+125	PC+126	PC+127	PC+128	PC+129	PC+130	PC+131	PC+132	PC+133	PC+134	PC+135	PC+136	PC+137	PC+138	PC+139	PC+140	PC+141	PC+142	PC+143	PC+144	PC+145	PC+146	PC+147	PC+148	PC+149	PC+150	PC+151	PC+152	PC+153	PC+154	PC+155	PC+156	PC+157	PC+158	PC+159	PC+160	PC+161	PC+162	PC+163	PC+164	PC+165	PC+166	PC+167	PC+168	PC+169	PC+170	PC+171	PC+172	PC+173	PC+174	PC+175	PC+176	PC+177	PC+178	PC+179	PC+180	PC+181	PC+182	PC+183	PC+184	PC+185	PC+186	PC+187	PC+188	PC+189	PC+190	PC+191	PC+192	PC+193	PC+194	PC+195	PC+196	PC+197	PC+198	PC+199	PC+200	PC+201	PC+202	PC+203	PC+204	PC+205	PC+206	PC+207	PC+208	PC+209	PC+210	PC+211	PC+212	PC+213	PC+214	PC+215	PC+216	PC+217	PC+218	PC+219	PC+220	PC+221	PC+222	PC+223	PC+224	PC+225	PC+226	PC+227	PC+228	PC+229	PC+230	PC+231	PC+232	PC+233	PC+234	PC+235	PC+236	PC+237	PC+238	PC+239	PC+240	PC+241	PC+242	PC+243	PC+244	PC+245	PC+246	PC+247	PC+248	PC+249	PC+250	PC+251	PC+252	PC+253	PC+254	PC+255	PC+256	PC+257	PC+258	PC+259	PC+260	PC+261	PC+262	PC+263	PC+264	PC+265	PC+266	PC+267	PC+268	PC+269	PC+270	PC+271	PC+272	PC+273	PC+274	PC+275	PC+276	PC+277	PC+278	PC+279	PC+280	PC+281	PC+282	PC+283	PC+284	PC+285	PC+286	PC+287	PC+288	PC+289	PC+290	PC+291	PC+292	PC+293	PC+294	PC+295	PC+296	PC+297	PC+298	PC+299	PC+300	PC+301	PC+302	PC+303	PC+304	PC+305	PC+306	PC+307	PC+308	PC+309	PC+310	PC+311	PC+312	PC+313	PC+314	PC+315	PC+316	PC+317	PC+318	PC+319	PC+320	PC+321	PC+322	PC+323	PC+324	PC+325	PC+326	PC+327	PC+328	PC+329	PC+330	PC+331	PC+332	PC+333	PC+334	PC+335	PC+336	PC+337	PC+338	PC+339	PC+340	PC+341	PC+342	PC+343	PC+344	PC+345	PC+346	PC+347	PC+348	PC+349	PC+350	PC+351	PC+352	PC+353	PC+354	PC+355	PC+356	PC+357	PC+358	PC+359	PC+360	PC+361	PC+362	PC+363	PC+364	PC+365	PC+366	PC+367	PC+368	PC+369	PC+370	PC+371	PC+372	PC+373	PC+374	PC+375	PC+376	PC+377	PC+378	PC+379	PC+380	PC+381	PC+382	PC+383	PC+384	PC+385	PC+386	PC+387	PC+388	PC+389	PC+390	PC+391	PC+392	PC+393	PC+394	PC+395	PC+396	PC+397	PC+398	PC+399	PC+400	PC+401	PC+402	PC+403	PC+404	PC+405	PC+406	PC+407	PC+408	PC+409	PC+410	PC+411	PC+412	PC+413	PC+414	PC+415	PC+416	PC+417	PC+418	PC+41
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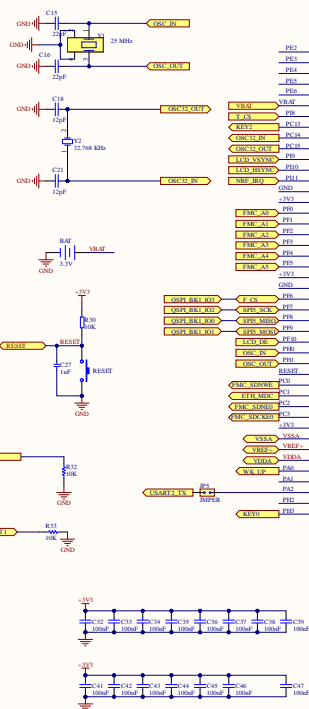
[illegible]

Figure 1 shows the pin connections for the MT7706B, a 128Kbit Flash Memory. The package has 48 pins. The connections are as follows:

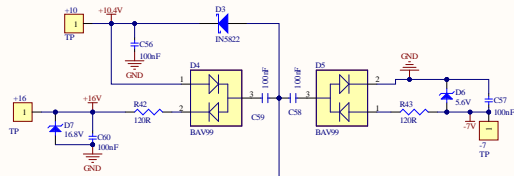
- Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48 are shown.
- Connections include VDD, VSS, CS2, CS1, DQ0, DQ1, DQ2, DQ3, DQ4, DQ5, DQ6, DQ7, DQ8, DQ9, DQ10, DQ11, DQ12, DQ13, DQ14, DQ15, DQ16, DQ17, DQ18, DQ19, DQ20, DQ21, DQ22, DQ23, DQ24, DQ25, DQ26, DQ27, DQ28, DQ29, DQ30, DQ31, DQ32, DQ33, DQ34, DQ35, DQ36, DQ37, DQ38, DQ39, DQ40, DQ41, DQ42, DQ43, DQ44, DQ45, DQ46, DQ47, DQ48.
- The MT7706B is a 128Kbit Flash Memory.

[illegible]

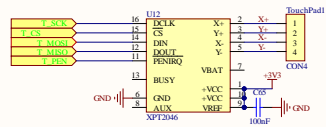
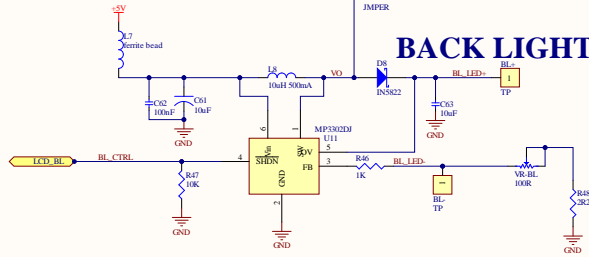
		PORT1		PORT2		PORT2-2		PORT2-2	
		1	2	1	2	1	2	1	2
PS0	1	2	1	2	1	2	1	2	1
PS1	3	4	3	4	3	4	3	4	3
PS2	5	6	5	6	5	6	5	6	5
PS3	7	8	7	8	7	8	7	8	7
PS4	9	10	9	10	9	10	9	10	9
PS5	11	12	11	12	11	12	11	12	11
PS6	13	14	13	14	13	14	13	14	13
PS7	15	16	15	16	15	16	15	16	15
PS8	17	18	17	18	17	18	17	18	17
PS9	19	20	19	20	19	20	19	20	19
PS10	21	22	21	22	21	22	21	22	21
PS11	23	24	23	24	23	24	23	24	23
PS12	25	26	25	26	25	26	25	26	25
PS13	27	28	27	28	27	28	27	28	27
PS14	29	30	29	30	29	30	29	30	29
PS15	31	32	31	32	31	32	31	32	31
PS16	33	34	33	34	33	34	33	34	33
PS17	35	36	35	36	35	36	35	36	35
PS18	37	38	37	38	37	38	37	38	37
PS19	39	40	39	40	39	40	39	40	39
PS20	41	42	41	42	41	42	41	42	41
PS21	43	44	43	44	43	44	43	44	43
PS22	45	46	45	46	45	46	45	46	45
PS23	47	48	47	48	47	48	47	48	47
PS24	49	50	49	50	49	50	49	50	49

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HIGH VOLTAGE

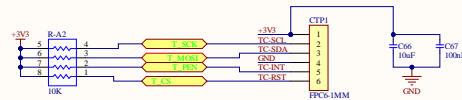


BACK LIGHT

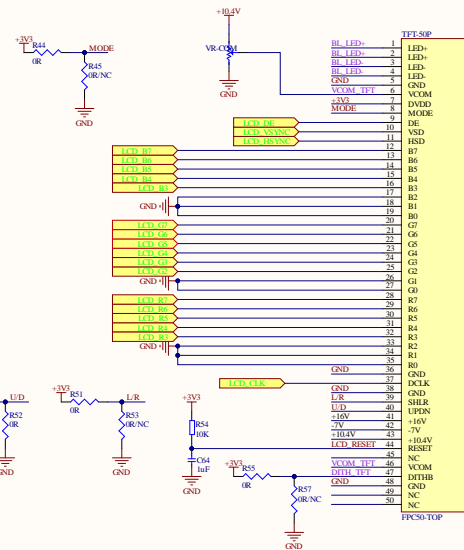


TOUCH PAD

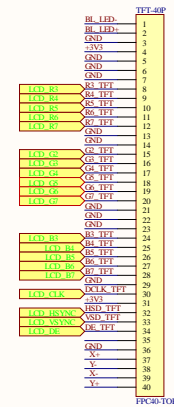
CAPACITIVE TOUCH



TFT50



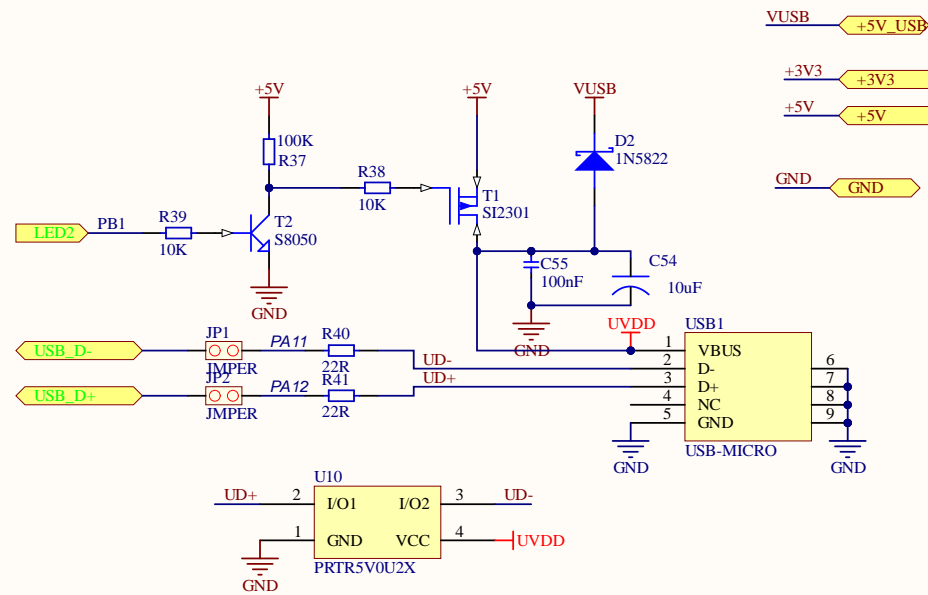
TFT40



BACK LIGHT

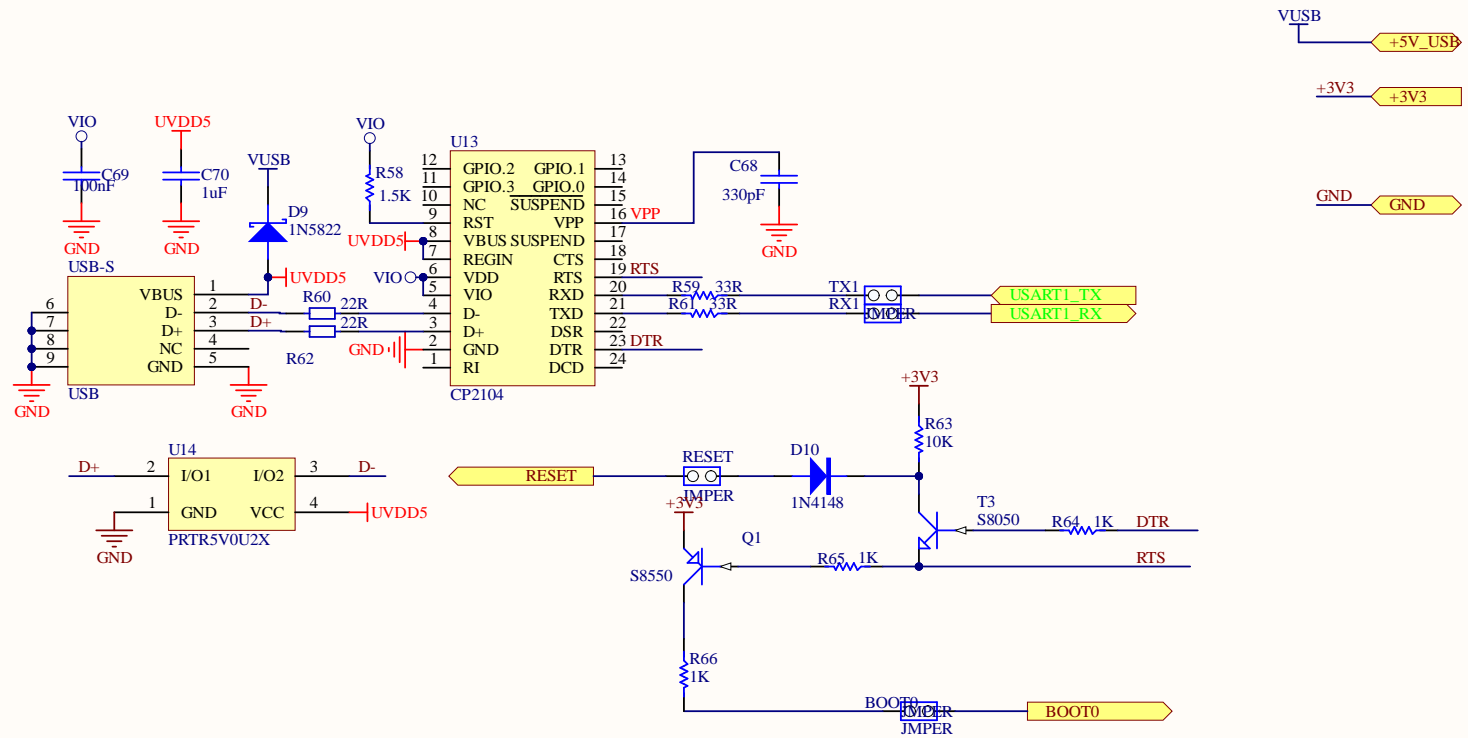


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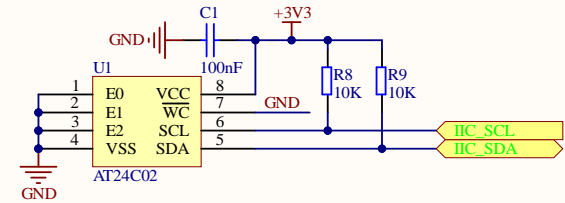
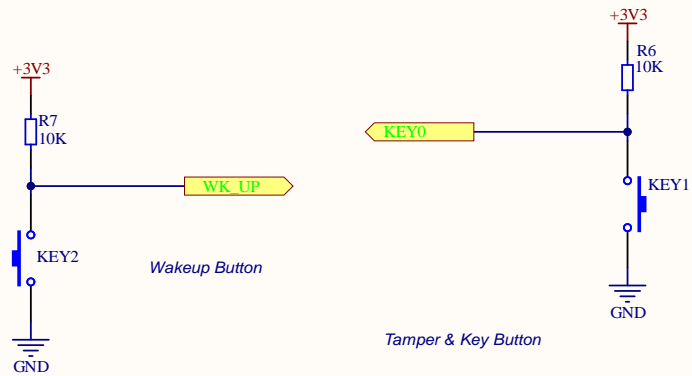
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USB-SERIAL

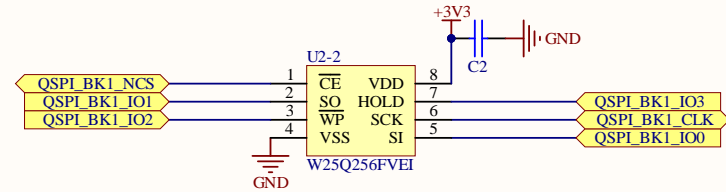


Buttons

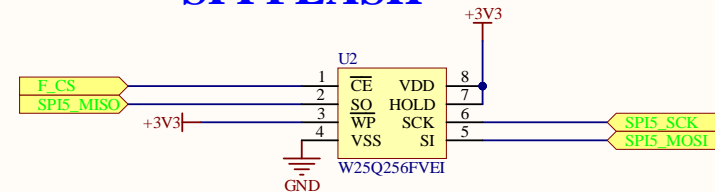
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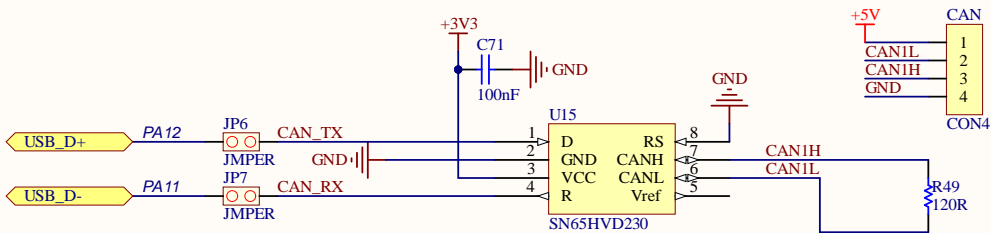
EEPROM



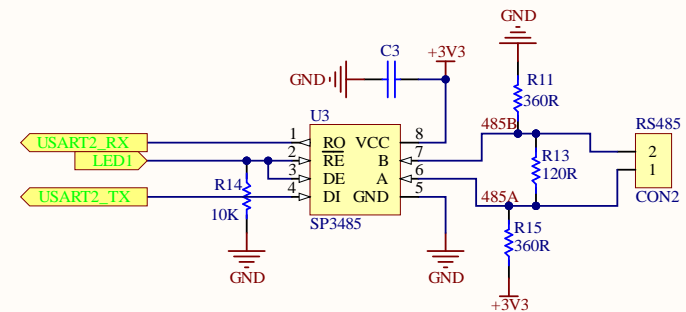
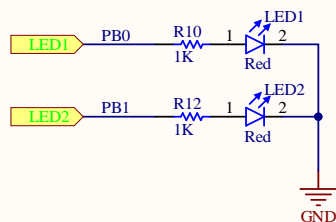
SPI FLASH



CAN

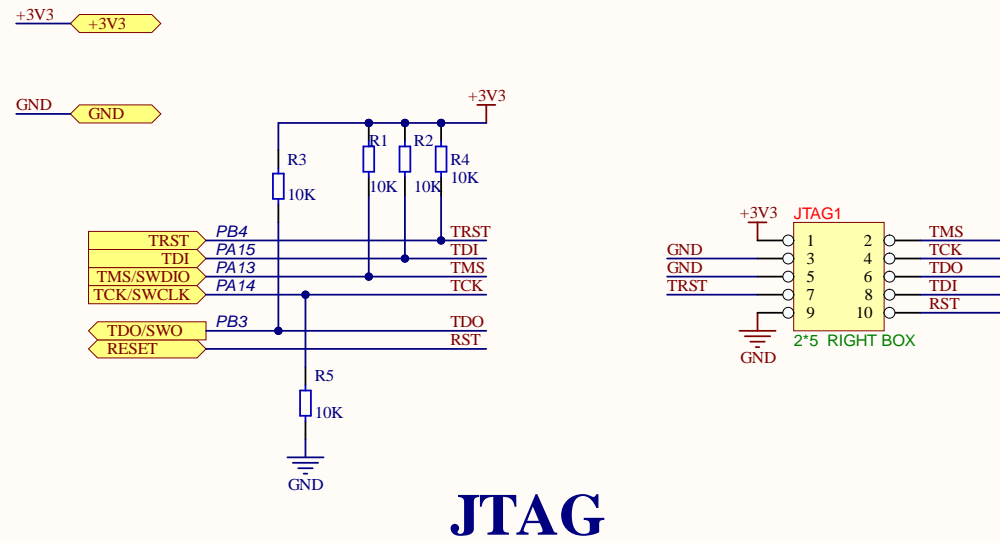


LEDs



RS485

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Bill of Materials

Bill of Materials for Project [STM32F429-V1.2.PrjPCB] (No PCB Document Selected)

Source Data From: STM32F429-V.PrjPCB
Project: STM32F429-V.PrjPCB
Variant: None

Creation Date: 2021-01-30 11:55 PM
Print Date: 30-Jan-21 11:55:22 PM

Footprint	Comment	LibRef	Designator	Description	Quantity
TP2	TP	CON1	-7, +10, +16, BL-, BL+	CONNECTOR	5
Power Jack	PWR5mm	PWR2.5	+5VDC	Low Voltage Power Supply Connector	1
Battery	3.3V	Battery	BAT1	Multicell Battery	1
3.5mm-BL1	CON2	CON2	BLT	CONNECTOR	1
SIP2	JMPER	JP2, JMPER	SC00T0_JP1, JP2, JP3, JP4, JP5, JP6	[NoValue], CONNECTOR	11
0805C	100uF	CAP, Cap	C1, C2, C3, C5, C7, C8, C11, C14, C20	Capacitor, Bipolar Capacitor, [NoValue]	42
1206	10uF	CAP, EL, CAP1	C4, C6, C81, C83	CAPACITOR	4
0805C	1uF	Res, Cap	C9, C12, C17, C25, C27, C64, C70	[NoValue], Bipolar Capacitor, CAPACITOR	7
0805C	22pF	Res, CAP, Cap	C10, C16, C16, C22, C23	[NoValue], Capacitor, Bipolar Capacitor	5
0805C	470nF	Cap-Bipolar	C13	Bipolar Capacitor	1
0805C	12pF	CAP, Cap	C18, C21, C28, C29, C30, C31	Capacitor, Bipolar Capacitor	6
0805C	10uF	CAP, CAP_EL	C19, C40, C54, C66	Capacitor	4
0805C	330pF	Cap-Bipolar	C68	Bipolar Capacitor	1
0805C-2	100nF	CAP	C71	Capacitor	1
SIP4	CON4	CON4	CAN	CONNECTOR	1
FPC6-1MM	FPC6-1MM	CON6	CON6	CONNECTOR	1
SMB	1N6822	DIODE	D1, D2, D9	Schottky Diode	3
SMB	1N6822	D Schottky	D3, D8	Schottky Diode	2
SOT-23	BAV99	Component_1	D4, D5		2
SMA	5.6V	ZENER1	D6	ZENER DIODE	1
SMA	16.8V	ZENER1	D7	ZENER DIODE	1
MELF-D	1N4148	DIODE	D10	DIODE	1
1206	1.1A	RES 0805	F1		1
FX3.25	Screw	Board Screw	FX1	Board Screw With Spacer	1
1.5mm screw	Screw	Board Screw	FX2, FX3, FX4	Board Screw With Spacer	3
PKV10SN	2*5 RIGHT BOX	HEADER 5X2	JTAG1		1
Tact Switch	10uA	Switch PB	KEY1, KEY2, RESET	Push Button Switch	3
0805L	10uH	Inductor	L1, L2, L3, L4	Inductor	4
0805L	ferrite bead	Inductor	L5, L7	Inductor	2
L0507	10uH 500mA	INDUCTOR	L8		1
RJ11-LAN	HR911105A	Component_1	LAN		1
LED1206-2	Red	LED	LED1, LED2, LED3, LED4	LED	4
Mark Point 4	MP1	TP	MP1		1
Mark Point 4	MP2	TP	MP2		1
HDR2X25	Header 25X2	Header 25X2	PORT1, PORT2	Header, 25-Pin, Dual row	2
DC4	HDR2*2	HDR2*2	PORT2-2		1
SIP3	JMPER	JPS	P-SW	CONNECTOR	1
SOT-23	S8550	PNPSMD	Q1	SMD PNP Transistor	1
0806R	10K	RES 0805	R1, R2, R3, R4, R5, R6, R7, R8, R9, R14	[NoValue], RESISTOR	29
0806R	1K	Res-1, RES	R10, R12, R16, R17, R46, R64, R65, R66	Resistor, [NoValue]	8
0806R	510R	Resistor	R11, R15, R34, R27, R28	Resistor	4
0806R	120R	Resistor, RES	R13, R42, R43	Resistor	3
0806R	1M	Resistor	R29	Resistor	1
0806R	12.1K	Resistor	R31	Resistor	1
0806R	100K	RES 0805	R37		1
0806R	22R	RES 0805	R40, R41, R59, R60, R61, R62	[NoValue], Resistor	6
0806R	0R	RES	R44, R51, R52, R55	RESISTOR	4
0806R	0R/NC	RES	R45, R50, R53, R57	RESISTOR	4
0806R	2R2	RES	R48	RESISTOR	1
0806R-2	120R	res 1	R49	Resistor	1
0806R	1.5K	Resistor	R58	Resistor	1
SOP8	48R9	RESPACK4_2	R-A1	RESISTOR ARRAY	1
SOP8	10K	RESPACK4_2	R-A2	RESISTOR ARRAY	1
CON2	CON2	CON2	RS485	CONNECTOR	1
MC/SD	SD CARD	Mini sd	SD1		1
SOT-23	Si2301	P-Channel	T1	P-Channel MOSFET	1
SOT-23	S8050	NPN SMD	T2, T3	NPN Transistor	2
FPC40	FPC40-TOP	Header40	TFT-40P		1
FPC50	FPC50-TOP	FPC50	TFT-50P		1
FFC/SM1.0	CON4	CON4	TouchPad1	CONNECTOR	1
SO-8	AT24C02	M24C04-WMN6	U1		1
SO-8-W	W25Q256FVEI	Component_1	U2, U2-2		2
SO-8	SP3485	ST6485	U3	RS485 TRANSCIVER	1
SOT-223	AMS1117-3.3	AMS1117	U4	1A LOW DROPOUT VOLTAGE	1
SOT-23	REF3033	REF3033	U5	Power Supply Supervisors	1
STM	STM32F429G	STM32F429G	U6		1
QFN-24	LAN8720A	Component_1	U7		1
TSOP-48	MT29F4G08AB	NAND01GVGB	U8		1
TSOP54	MT48LC16M16A	K4S561632C	U9	512Mb Synchronous High Data Rate	1
SOT143B	PRTR5V0UZX	PRTR5V0UZX	U10, U14		2
TSOT23-6	MP3302DJ	MP3302	U11	High Current Boost White LED Driver	1
SSOP-16	XPT2046	Component_1	U12		1
QFN-24	CP1204	Component_1	U13		1
SO-8	SN65HVD230	SN65HVD230D	U15		1
USB-MICRO	USB-MICRO	USB mini	USB1	mini USB Connector	1
USB-MICRO	USB	USB mini	USB-5	mini USB Connector	1
MU-POT	100R	Resistor	VR-BL	Variable Resistor	1
MU-POT	10K	Resistor	VR-COM	Variable Resistor	1
Xtal 3.2725	25 MHz	XTAL 4pin	Y1, Y3		2
XTAL-ZM206	32.768 KHz	XTAL	Y2	XTAL Crystal	1
MELF-D	5.6V	ZENER1	Z1	Zener Diode	1

Approved	Notes