











Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	Capacitor	C1, C2, C3, C4, C8, C9, C10, C11, C12, C16, C18, C20, C21, C26, C27, C33, C34, C35, C36, C40, C41, C42, C43, C44, C45, C46, C47, C50, C51, C52, C53, C54, C55, C56, C57, C58, C56, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C74	C0603	Сар	5
10uF	Capacitor	C5, C19, C25	C1206	Сар	3
22pF 4.7uF	Capacitor Capacitor	C6, C7 C13, C31, C32, C38, C39, C48, C49, C73	C0603	Сар	
10nF	Capacitor	C14, C23, C29, C37	C0603	Сар	4
1uF	Capacitor	C15	C0603	Сар	1
100pF	Capacitor	C17	C0603	Сар	1
3.3nF	Capacitor	C22	C0603	Сар	,
22uF	Capacitor	C24, C30	C1206	Сар	2
4.7nF	Capacitor	C28	C0603	Сар	1
SatumCartage		CN1	Satum_cart	SatumCartage	1
LED	Typical RED GaAs LED	D1, D2, D3	D0603	LED1	3
B340A	Schottky Diode	D5, D6	SMA	DIODE SCHOTTKY	2
UART		J1	SIP4	SIP4	1
JTAG		J2	SIP4	SIP4	1
JTAG	Header, 5-Pin, Dual row	J3	HDR2X5	Header 5X2	1
SD CARD	Secure Digital Card	J4	KSDC012551	KSDC012551-9	1
HEADER BLM21PG300SN1	Socket Inductor	L1, L4	R0805	Inductor	2
10uH		L1, L4 L2			
10uH 4.7uH	Inductor	L3	CDRH5D28 CDRH5D28	Inductor Inductor	1
8MHZ				XTAL	
10K	Crystal Oscillator Resistor	Q1 R1, R3, R4, R10,	R0603	Res2	-
1K	Resistor	R14, R18, R19 R2, R16, R17	R0603	Res2	3
22	Resistor	R5	R0603	Res2	
0	Resistor	R6, R7, R20, R21	R0603	Res2	4
100K	Resistor	R8, R12	R0603	Res2	2
7.5K	Resistor	R9	R0603	Res2	-
26.1K	Resistor	R11	R0603	Res2	
4.99K	Resistor	R13	R0603	Res2	
3K	Resistor	R15	R0603	Res2	
SN74LVC164245A		U1, U2, U3, U4	DGG048	SN74LVC164245A	
EP4CE6F17C8	Cyclone IV Family FPGA, 2V Core, 179 I/O Pins, 2 PLLs, 256-Pin FBGA, Speed Grade 8, Commercial Grade	U5	FBGA256	EP4CE6F17C8	1
K4S511632B-TC75	512Mb Synchronous High Data Rate DRAM, 8Mb x 16Bit x 4 Banks, 54-Pin TSOP	U6	54_TSOP2_400AF _N	K4S511632B-TC75	
STM32F103VCT6		U7	TQFP-100	STM32F103VCT6	
SST25FV080B		U8	SOIC-8	SST25FV080B	
MP1482		U9, U10	SOIC-8	MP1482	
			00T 00	VOCAGO	
XC6206	LDO	U11	SOT-23	XC6206	•