









Comment	Description	Footprint	Quantity	Designator
		'	,	C1, C2, C3, C4, C8, C9, C10,
				C11, C12, C16, C18, C20,
				C21, C26, C27, C33, C34, C35, C36, C40, C41, C42,
100nF	Capacitor	C0603	53	C43, C44, C45, C46, C47,
100111	Capacitor	C0003	33	C50, C51, C52, C53, C54,
				C55, C56, C57, C58, C59, C60, C61, C62, C63, C64,
				C65, C66, C67, C68, C69,
10.5	c 'i	C120C	2	C70, C71, C72, C74, C77, C78
10uF	Capacitor	C1206		C5, C19, C25
22pF	Capacitor	C0603	2	C6, C7 C13, C31, C32, C38, C39,
4.7uF	Capacitor	C0603	8	C48, C49, C73
10nF	Capacitor	C0603	4	C14, C23, C29, C37
1uF	Capacitor	C0603	1	C15
100pF	Capacitor	C0603	1	C17
3.3nF	Capacitor	C0603	1	C22
22uF	Capacitor	C1206	2	C24, C30
4.7nF	Capacitor	C0603	1	C28
2.2uF	Capacitor	C0603	2	C75, C76
SaturnCartage		Saturn_cart	1	CN1
LED	Typical RED GaAs LED	D0603	3	D1, D2, D3
B340A	Schottky Diode	SMA		D5, D6, D7
MicroUSB	USB micro female SMT with	USB_MICRO_5S_B	1	J1
	4 fixed foot			
SIP5		SIP5	1	
JTAG	Header, 5-Pin, Dual row	HDR2X5		J3
MicroSD	MicroSD	MicroSD-1		J4
ExtPower	Header, 2-Pin	HDR1X2		J5
BLM21PG300SN1	Inductor	R0805		L1, L4
10uH	Inductor	CDRH5D28		L2
4.7uH	Inductor	CDRH5D28	1	L3
16M	XTAL SMD 2016, 32MHz, Cl=8pF, Total Tol: 40ppm	SMD3225	1	Q1
	CI-Opi, Total Tol. 40ppili			R1, R3, R4, R10, R14, R18,
10K	Resistor	R0603	15	R19, R24, R25, R26, R27, R28, R29, R30, R31
1K	Resistor	R0603	3	R2, R16, R17
22	Resistor	R0603		R5, R22, R23
0	Resistor	R0603		R6, R20
0(NC)	Resistor	R0603		R7, R21
100K	Resistor	R0603		R8, R12
7.5K	Resistor	R0603		R9
26.1K	Resistor	R0603	1	
4.99K	Resistor	R0603	1	
3K	Resistor	R0603		R15
SW-PB	Switch	SW4_5X5		S1
SN74LVC164245A	Switch	DGG048		U1, U2, U3, U4
31174EVC104243A	Cyclone IV Family FPGA, 2V	DGG040		01, 02, 03, 04
EP4CE6F17C8	Core, 179 I/O Pins, 2 PLLs,	FBGA256	1	U5
LF4CLOF 17C6	256-Pin FBGA, Speed Grade	PBGA230	ı	03
	8, Commercial Grade 512Mb Synchronous High			
K4S511632B-TC75	Data Rate DRAM, 8Mb x	54_TSOP2_400AF_N	1	U6
	16Bit x 4 Banks, 54-Pin TSOP			
STM32H750VBT6		TQFP-100	1	
SST25FV080B		SOIC-8		U8
MP1482		SOIC-8		U9, U10
XC6206	LDO	sot-23-xc6206	1	U11
SPI_FLASH		SOIC-8	1	U12
SPI_SRAM		sop-8_n	1	U13
50Mhz		OSC_5032	1	Y1