CTOC DAUGHTERBOARD BILL OF MATERIALS

item	quantity	reference	description	part number	comment
1	19	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C124, C125, C126, C127, C128, C137	100 pF 0805		NPO or Y5V dialectric, 25 wVDC or better
2	103	C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C120, C121, C123	0.1 uF 0805 NPO dialectric		NPO or Y5V dialectric, 25 wVDC or better
3	7	C46, C47, C82, C83, C118, C119, C122	68 uF 7343 tantalum capacitor		4wVDC or better. Observe correct polarity!
4	8	C129, C130, C131, C132, C133, C134, C135, C136	10 uF 3216 tantalum capacitor		4wVDC or better. Observe correct polarity!
5	3	D1, D2, D3	GREEN LED surface mount 1206		Observe the correct polarity. Notch on PCB silkscreen is the ANODE.
6	1	D4	surface mount transient voltage suppressor (TVS)	SMBJ5.0CA	this device is NOT polarized. Insert in either direction.
7	1	F1	Raychem 3A polyfuse	RUE300	
8	1	JP4	Molex 10 pin header	87089-0816	
9	4	J1, J2, J7, J8	do not stuff	n/a	do not stuff
10	4	J3, J4, J5, J6	do not stuff	n/a	do not stuff
11	1	J9	OST terminal block ESSTLZ1550	EDSTLZ1550	Tight fit. File down edges of square post solder tails.
12	3	R1, R6, R7	4.7k resistor 0805		5% or better
13	21	R2, R3, R4, R5, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24	82 ohm resistor 0805		5% or better
14	1	U1	Xilinx Virtex FPGA	XCV600-5BG560C	
15	1	U3	Xilinx Virtex FPGA	XCV600-5BG560C	
16	1	U5	Xilinx Virtex FPGA	XCV600-5BG560C	
17	1	U2	Micrel voltage regulator	MIC39301-2.5BU	
18	1	U4	Micrel voltage regulator	MIC39301-2.5BU	
19	1	U6	Micrel voltage regulator	MIC39301-2.5BU	