

BOM of Z3660 without Z-turn FPGA board

Designator	Package	Quantity	Designation	Mouser ref	Observations
U5	SOIC-14 3.9x8.7mm_P1.27mm	1	7407	595-SN74LS07DR	
JP1,JP2,JP3	PinHeader_1x02_P2.54mm_Vertical	3	Jumper_NO_Small		Fan power (probably you will use 2 of them, one fan for 060 and another fan for Z-turn FPGA)
U2	TQFP-144_20x20mm_P0.5mm	1	XC95144XL-TQ144	217-95144XL-10TQ144C	No stock on july 2022
C26,C27,C102E1,C28,C102B1	C_Elec_5x5.4	6	22uF	80-EEV226M025S9DAA	
C25,C37,C24,C29,C30,C31,C32,C34,C35,C36,C33,C38,C50,C51,C53,C55,C54,C56,C1,C58,C60,C57,C59,C12,C47,C11,C48,C13,C14,C2,C5,C6,C7,C8,C9,C18,C19,C23,C20,C15,C21,C22,C17,C16,C3,C4,C44,C52,C46,C49,C10,C45	C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	52	100nF	187-CL21B104KACNNNC	
R12	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	NC		Not connected
R2	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	10k		
C400A1	C_1812_4532Metric_Pad1.57x3.40mm_HandSolder	1	NC		See U1
U1	SOT-89-3_Handsoldering	1	RH5VA43A	579-TC54VC4302EMB713	Use U1 (recommended), or use C400A1 (100nF)
R13A1,R13B1	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	0		Select R13A1 for 5V Oscillator, or R13B1 for 3V3 Oscillator (R13A1 5V recommended)
R9,R10	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	33	603-RC0805FR-0733RL	
U12,U7,U8,U11,U6,U10,U14,U13,U9	SOIC-24W_7.5x15.4mm_P1.27mm	9	74FCT543A	595-CY74FCT543ATSOC	
R8A1,R25A1,R100A1 OR R8B1,R25B1,R100B1	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	3	0	603-RC0805FR-070RL	Only use RxxxA1 (RxxxB1 are Not Connected)
J2	IDC-Header_2x07_P2.54mm_Vertical	1	Conn_02x07_Odd_Even		For CPLD programming
X1	Oscillator_SMD_IQD_IQX070-4Pin_7.5x5.0mm	1	IQXO-70		Not connected
C39,C40,C42,C43	C_1206_3216Metric_Pad1.33x1.80mm_HandSolder	4	10uF	581-1206DD106MAT2A	
D1	LED_1206_3216Metric_Pad1.42x1.75mm_HandSolder	1	LED_Small	327-RPG1102W660TR	
D2	LED_1206_3216Metric_Pad1.42x1.75mm_HandSolder	1	LED_Small	327-BR1102WTR	
R15	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	680	603-RC0805FR-7W680RL	
R16,R6,R7,R8,R5,R14	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	6	1k	603-RC0805FR-071KL	
FB1	Fuse_1806_4516Metric_Pad1.57x1.80mm_HandSolder	1	Ferrite_Bead_Small	623-2518068007Y3	
RN2,RN11,RN12,RN8,RN1,RN7,RN9,RN10	R_Array_Convex_8x0602	8	1k	667-EXB-2HV102JV	
R11	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	1k2	603-RC0805FR-071K2L	
U3,U16,U15,U18,U17	TSSOP-20_4.4x6.5mm_P0.65mm	5	SN74CB3T3245PW	595-SN74CB3T3245PWG4	
J1	PinHeader_1x02_P2.54mm_Vertical	1	Jumper_2_Open		Not connected
R18,R1,R17,R3,R4	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	5	4k7	603-RC0805FR-074K7L	
VR1	Regulador_DCDC	1	LT1084-3.3_EXTENDED	926-LM1084IT-3.3NOPB	Alternative 3V3 DCDC from Amazon, etc.
U4	PGA226	1	MC68060 PGA socket		ebay?
R13	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	100	603-RC0805FR-07100RL	
RN3,RN5,RN6,RN4	R_Array_Convex_8x0602	4	22	667-EXB-2HV220JV	
CN2,CN3	PinHeader_2x40_P1.27mm_Vertical	2	Conn_02x40_Odd_Even	649-200211110080T8LF	NC, but use them if you are going to use RAM board or Z-turn Board in the future
CN1	xIP-200	1	KEL-8817-200-170S-F		https://store.inertialcomputing.com/product-p/kel-8817-200-170s-f.htm Out of stock on July 2022