

BOM of Z3660 with Z-turn FPGA board

Designator	Package	Quantity	Designation	Mouser ref	Observations
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,C63	C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	53	100nF	187-CL21B104KACNNNC	
C26,C27,C62,C28,C61,C41	C Elec 5x5.4	6	22uF	80-EEV226M025S9DAA	
C39,C40,C42,C43	C_1206_3216Metric_Pad1.33x1.80mm_HandSolder	4	10uF	581-1206DD106MAT2A	
C400A1	C_1812_4532Metric_Pad1.57x3.40mm_HandSolder	1	NC		See U1A1
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
CN2,CN3	PinHeader 2x40 P1.27mm Vertical	2	Conn_02x40_Odd_Even	649-200211110080T8LF	
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	
FB1	Fuse 1806 4516Metric_Pad1.57x1.80mm_HandSolder	1	Ferrite Bead Small	623-251806800Y73	
J1	PinHeader 1x02 P2.54mm Vertical	1	Jumper_2_Open		Not connected
J2	IDC-Header 2x07 P2.54mm Vertical	1	Conn_02x07_Odd_Even	649-1012938191404BLF	For CPLD programming
JP1,JP2,JP3	PinHeader 1x02 P2.54mm_Verical	3	Jumper_NO_Small	855-M20-9990246	Fan power (probably you will use 2 of them, one fan for 060 and another fan for Z-turn FPGA)
JP6,JP7	PinHeader 1x03 P2.54mm Vertical	2	Jumper_3_Open	523-G800LR305018EU	
R11	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	1k2	603-RC0805FR-071K2L	
R12	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	NC		Not connected
R13	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	100	603-RC0805FR-07100RL	
R15	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	680	603-RC0805FR-7W680RL	
R16,R21,R20,R6,R7,R8,R5,R14	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	8	1k	603-RC0805FR-071KL	
R19	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	120	603-RC0805FR-07120RL	
R2	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	10k	603-RC0805FR-0710KL	
R23,R24,R25	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	1k 0.1%	603-RT0805BRE071KL	
R3,R18,R4,R1,R17	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	5	4k7	603-RC0805FR-074K7L	
R30,R22,R26,R27	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	4	9k 0.1%	603-RT0805BRE079KL	
R9,R10,R28,R29	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	4	33	603-RC0805FR-0733RL	
RN11,RN12,RN8,RN1,RN7,RN9,RN10	R_Array_Convex_8x0602	7	1k	667-EXB-2HV102JV	
RN3,RN5,RN6,RN4	R_Array_Convex_8x0602	4	22	667-EXB-2HV220JV	
U1	MSOP-10_3x3mm_P0.5mm	1	LTC2990	584-LTC2990CMS#PBF	Optional. To be tested
U12,U7,U8,U11,U6,U10,U14,U13,U9	SOIC-24W_7.5x15.4mm_P1.27mm	9	74FCT543A	595-CY74FCT543ATSOC	
U1A1 OR U1B1	SOT-89-3_Handsoldering OR TSOP-5_1.65x3.05mm_P0.95mm	1	RH5VA43A OR BU4942G-TR	579-TC54VC4302EMB713 OR 755-BU4942G-TR	Use U1A1 or U1B1 (recommended), or use C400A1 (100nF)
U2	TQFP-144_20x20mm_P0.5mm	1	XC95144XL-TQ144	217-5144XL-10TQG144C	No stock on july 2022, amibay, ebay
U3,U16,U15,U18,U17	TSSOP-20_4.4x6.5mm_P0.65mm	5	SN74CB3T3245PW	595-SN74CB3T3245PWG4	
U4	PGA226	1	MC68060 PGA socket		ebay?
U5	SOIC-14_3.9x8.7mm_P1.27mm	1	7407	595-SN74LS07DR	
VR1	Regulador_DCDC	1	LT1084-3.3_EXTENDED	926-LM1084IT-3.3NOPB	Alternative 5v to 3V3 DCDC from Amazon, etc.
X1	Oscillator_SMD IQD IQXO70-4Pin 7.5x5.0mm	1	IQXO-70		Not connected