

1 Bill of Material for processor. Bom

2	3 Used Part Type	Designator	Footprint	Farnell
4	=====	=====	=====	=====
5 31	CAP_22N_5V_0402_10%	C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36	C_0402	301-9445
20 5	CAP_22U_TANT_5V_10%	C1 C2 C3 C23 C24	TANT_B	197-038
22 5	CAP_100N_6V3_0603_X7R	C37 C38 C39 C40 C41	C_0603	432-210
25 1	CON_JUMPER_3	J5	CON_JP_3_SM_0603	772-227
26 1	CON_SMT_1.25MM_8W	J7	CON_SMT_1.25_8W	889-453
27 2	CON_SMT_1.25MM_10W	J1 J9	CON_SMT_1.25_10W	889-465
28 1	CON_SMT_51W_ZYTON_SKT	J6	CON_SMT_51W_ZYTON_SKT	329-3269
29 2	CON_SMT_69W_ZYTON_SKT	J3 J4	CON_SMT_69W_ZYTON_SKT	329-3270
30 1	CON_SMT_FCP_30	J2	CON_AMP_FPC_30_05	307-8395
31 17	FIDUCIAL	F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 M1 M2 M3	FIDUCIAL_AB	
38 3	HOLE_3.2MM_DIA	U4	HOLE_3.2MM_DIA	
39 1	IC_FLASH_FUJI_MBM29LV650/1UE_TSOP_48	U7	IC_TSOP48_12X20X0.5MM	
40 1	IC_FLASH_NAND_K9F1608W0A-TCB0	U8	IC_TSOPII_40_44_0.8MM	
41 1	IC_FLASH_NAND_SM_SOCKET	U6 U9	CON_SKT_SMARTMEDIA	
42 1	IC_FLASH_NAND_TSOP48	U10 U11	IC_TSOP_48_0.5MM	
43 2	IC_IDT74LVCH16373APV	U12 U13	IC_TSSOP48_10X0.635	119-490
44 5	IC_IDT74LVCH162245APV	U16	IC_TSSOP48_10X0.635	119-489
47 1	IC_MAX202ECSE	U17	IC_S016	639-345
48 1	IC_MAX604CSA	U14	IC_S08	305-1651
49 1	IC_MAX811SEUS-T (2.93V TRIP) (MANUAL RESET)	U15	S0T143	787-619
50 1	IC_SA1110_BGA_256	U1	IC_MBGA256_1.0MM	
51 2	IC_SDRAM_512M	U2 U3	IC_TSOP_54_SDRAM	
52 1	IC_XCR3032/64_VQ44	U5	IC_VQFP44	
53 17	LED_0603_GREEN	D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	LED_0603	324-6516
60 1	LED_0603_RED	D1	LED_0603	324-6486
61 4	R4_SMT_1K_10%	RP16 RP17 RP19 RP20	ARC241	776-701
63 16	R4_SMT_68R_10%_ARC341	RP1 RP2 RP3 RP4 RP5 RP6 RP7 RP8 RP9 RP10 RP11 RP12 RP13 RP14 RP15 RP18	ARC341	325-7356
71 6	R_1K_0603_5%	R4 R5 R7 R9 R10 R15	R_0603	911-239
73 4	R_10K_0603_1%	R1 R8 R11 R12	R_0603	911-355
75 2	R_33R_0603_10%	R13 R14	R_0603	911-057
76 1	R_100K_0603_1%	R2	R_0603	911-471
77 1	R_220K_0603_1%	R3	R_0603	911-513
78 1	R_270R_0603_1%	R6	R_0603	911-161
79 5	SHUNT	S1 S2 S3 S4 S5	SHUNT_6MIL	
81 1	SW_SPST_4MM_SMT	SW1	SW_SPST_4MM	535-930
82 13	TP	P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21	TPA	
88 8	TP	P1 P2 P3 P4 P5 P6 P7 P8	TPT	
91 1	XTAL_HC49_3.6864MHZ	X1	XTAL_HC49_4HSMX	639-606
92 1	XTAL_WATCH	X2	XTAL_WATCH_B	221-533

96 Part Options...

98 U5 - Xilinx XCR3032XL-7VQ44C is preferred. -5 is ok in place of -7. 44I (that's an I, not a 1 or an L) is ok i
99 n place of 44C
100 U2, U3 SDRAM - Samsung K4S561632B-TC75 - TCL have stock of these, but we ought to find something lower power fo
101 r future builds
102 U4 - Flash - TCL have 3 of these MBM29LV651UE -90, which we ought to use for prototypes, and a heap of these MBM
103 29LV400TC-90 for production
104 U8 - Nand Flash - This can be any NAND flash in the 48-pin TSOP package. The bigger the better for prototypes -
105 ask the supplier what's available - they go up to 256Mbyte at the moment.
106 U7 - Nand Flash - should be no fit. This can be any NAND flash in the 44(40) TSOP package. It's only really an e
107 mergency fallback if we can't buy U8, as they only go up to titchy sizes.
108 J8 - Smartmedia Socket - Toby got this for me - I don't know the supplier. We'll also need a few Smartmedia card
109 s to go in it, but they can wait.
110 U1 - Intel SA1110 - TCL have a tray of SA1110 206MHz 1.75V uBGA package, order code GDS1110BC
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