

BILL OF MATERIALS FOR FMU2 CPU V104 ISSUE 3 07/04/05

Component Reference	Qty Reqd Per FMU2	Product Description	Value / Man Part Number	Package	Manufacturer:	Supplier
B1	1	AWD, MIN BUZZER,3-16V DC, 85dB RS172-7627	EI-242-B	2 PIN THRO HOLE		RS
BT1	1	BATTERY 3V, LITHIUM, TO BE ADVISED	DRAWING NPB M 1336, TO BE	20mm TAGGED	H SQUARED	H SQUARED
C2,C3,C7,C8,C10,C11,C12,C15,C21,C22,C25,C27,C31,C34,C36,C37,C39,C41,C43,C44,C45	21	CAPACITOR 10% 16V, CER	0.1uF,MCH182C104 KK	0603	ROHM	KESTRONICS
C4,C9	2	CAPACITOR 10% 25V, CER	1uF	1206	ROHM	KESTRONICS
C1,C17,C20,C35	4	CAPACITOR 10% 50V, CER	10nF	0603	ROHM	KESTRONICS
C32,C33,C40	3	CAPACITOR 10% 50V, CER	470nF,	1206	ROHM	KESTRONICS
C30,C42	2	CAPACITOR 20% 16V TANT ESR=0.2	47uF	7.3X4.3	PANASONIC	RS
C16,C18,C19,C46,C24,C28	6	CAPACITOR 20% 16V, TANT	10uF, NRC106M16	L6.0XW3.2	NEC	FLINT

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C29	1	CAPACITOR 20% 16V, TANT	22uF, NRD226M16	7.3X4.3	NEC	FLINT
C38	1	CAPACITOR 5% 50V, CER	100pF,	0603	ROHM	KESTRONICS
C5,C6,C13,C14	4	CAPACITOR 5% 50V, CER	22pF	0603	ROHM	KESTRONICS
C23,C26	2	CAPACITOR 5% 50V, CER	1500pF	0603	ROHM	KESTRONICS
J3	1	CONNECTOR, 20 WAY SMD SERIES6212-ZIF RIGHT ANGLE	08-6212-020-340-80 0	N/A	ELCO/AVX	ELCO/AVX
J1, J2	2	CONNECTOR, 25 WAY (1.0MM PITCH,4.3MM STACKING HEIGHT,	M40-6202506	N/A	HARWIN	HARWIN
PL1	1	CONNECTOR, 8 WAY HEADER 0.1" PITCH (NON FRICTION LOCK)	640454-8	8 WAY	AMP	FEC
X2	1	CRYSTAL 16MHz 30pF HC49/4HSMX	16MHz / 30pF A161G	HC49/4HSMX	IQD	FEC

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X3	1	CRYSTAL 3.6864MHz 30pF HC49/4HSMX	3.6864MHz / 30pF A169E	HC49/4HSMX	IQD	FEC
X1	1	CRYSTAL 32.768KHz 12.5pF MC406/90SMX	32.768KHz / 12.5pF	MC406/90SMX	SEIKO	FEC
D6,D8	2	DIODE, DUAL SHOTTKY, If=1A PULSED, MAX Vf=410mV	HSMS-2815	SOT143	HEWLETT - PACKARD	FEC
D3	1	DIODE, SHOTTKY, 50V PEAK, 35V RMS, 1A, 15nSEC.	ES1A	SMA	GENERAL INSTRUMENT	RS
D1,D2,D4,D7	4	DIODE, SHOTTKY,REV VOLTAGE 20V, 0.5A, Vf=0.385@0.5A	MBR0520LT1	SOD123	MOTOROLA	FEC
J4	1	FFC CONNECTOR, 0.5 PITCH 16 WAY 52559 SERIES -VERTICAL SMT	52559-1692	0.5PITCH 16 WAY SM	MOLEX	RS
F1,F2	2	FUSE, T1A, 125V, L6.1mm X W2.69mm X HT2.69mm	T1A Farnell 664-728	SM	LITTELFUSE	FEC
PL2,PL3	2	HEADER, 1.25MM PITCH VERTICAL SMT	53398-0490	N/A	MOLEX	FEC

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IC7	1	I/C SRAM, 128K X 8, 85nS, ALTERNATIVE PART, SEE PART	K6X1008C2D-GF55	SOP322		
IC10	1	IC GATE STX BUFFER WITH 3 STATE OUTPUT ALTERNATIVE FOR 774	NC7SZ125M5X	SOT23/5		
IC3	1	IC, LINEAR REG, 1.25A LOW DROP OUT,	MIC2941ABU	TO-263-5	MICREL	FUTURE
IC11	1	IC, LOW POWER WITH SUPERVISORY CIRCUITS WITH ADJ.	MAX6303CUA	8 UMAX	MAXIM	MAXIM
IC2	1	IC, MICRO CONTROLLER, CPU	HD64F3048F16	QFP100	HITACHI	DIALOGUE
IC9,IC14	2	IC, OP-AMP, LOW POWER, 4MHz GBW, RAIL TO RAIL	LM7301IM5 / LM7301IM5X	SOT23-5PIN	NATIONAL SEMICONDUCTOR	DIALOGUE
IC1	1	IC, QUAD 2 INPUT AND GATE	74ACT08SC	SOIC14	FAIRCHILD	FAIRCHILD
IC5	1	IC, REAL TIME CLOCK	DS1284Q	PLCC28	DALLAS	DT

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IC4	1	IC, SWITCHING REG	MAX887HESA	SOIC8	MAXIM	MAXIM
IC12	1	IC, TRANSCEIVER	ICL3227IA	SSOP16	INTERSIL	INTERSIL
IC6	1	IC, UART	SCC2692AC1A44	PLCC44	PHILIPS	+-
IC8	1	IC, VOLTAGE CONVERTER	MAX860IUA	8 UMAX	MAXIM	MAXIM
L1	1	INDUCTOR 33uH 0.9A SHIELDED	24S330	SM	NEWPORT	NEWPORT
IC13	1	MICROPROCESSOR SUPERVISOR IC	MCP100T-475I/TT	SOT23-3	MICROCHIP	
PCB	1	PCB, FMU2 CPU PCB V104	NOT POPULATED	N/A		
R46	1	RESISTOR 1% 0.063W	18K	0603	NEOHM	ECLIPSE

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R12	1	RESISTOR 1% 0.063W	1K	0603	NEOHM	ECLIPSE
R30,R42	2	RESISTOR 1% 0.063W	100K	0603	NEOHM	ECLIPSE
R5,R13,R15,R16,R17,R19,R28, R29,R32,R33,R34,R35,R39,R47 ,R50,R51,R52	17	RESISTOR 1% 0.063W	10K	0603	NEOHM	ECLIPSE
R10	1	RESISTOR 1% 0.063W	10R	0603	NEOHM	ECLIPSE
R6,R9,R18,R22,R23,R24,R27,R 38,R41	9	RESISTOR 1% 0.063W	100R	0603	NEOHM	ECLIPSE
R40	1	RESISTOR 1% 0.063W	82K	0603	NEOHM	ECLIPSE
R14	1	RESISTOR 1% 0.063W	300R	0603		
R3	1	RESISTOR 1% 0.063W	11K	0603	NEOHM	ECLIPSE

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R37,R49	2	RESISTOR 1% 0.063W	6K8	0603	NEOHM	ECLIPSE
R21	1	RESISTOR 1% 0.063W	27K	0603	NEOHM	ECLIPSE
R45	1	RESISTOR 1% 0.063W	68K	0603	NEOHM	ECLIPSE
R31	1	RESISTOR 1% 0.063W	39K	0603	NEOHM	ECLIPSE
R1	1	RESISTOR 1% 0.063W	12K	0603		
R2,R4,R20	3	RESISTOR 1% 0.063W	1M	0603	NEOHM	ECLIPSE
R36	1	RESISTOR 1% 0.063W	120K	0603	NEOHM	ECLIPSE
R43	1	RESISTOR 1% 0.063W	56K	0603	NEOHM	ECLIPSE

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R8,R11,R48,R53	4	RESISTOR 1% 0.063W	4K7	0603	NEOHM	ECLIPSE
R25,R26	2	RESISTOR 1% 0.063W	560R	0603	NEOHM	ECLIPSE
R44	1	RESISTOR 1% 0.063W	13K	0603	NEOHM	ECLIPSE
R7	1	RESISTOR 5% 2W	6R8	2W THRO HOLE	MEGGITT CGS	ECLIPSE
TR1,TR5,TR8	3	TRANSISTOR N-FET	BSS138	SOT23	NATIONAL SEMICONDUCTOR	RS
TR6,TR7,TR9,TR11	4	TRANSISTOR NPN	FMMT493	SOT23	ZETEX	ECLIPSE
TR2, TR3, TR10	3	TRANSISTOR P-FET	BSS84	SOT23	NATIONAL SEMICONDUCTOR	DIALOGUE
TR4	1	TRANSISTOR PNP	FZT951	SOT223	ZETEX	ECLIPSE

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D9	1	V. REF 1V24 1%	ZRA124F01	SOT23	ZETEX	ECLIPSE
D5	1	V.REF 4V 1%	ZRT040GC1	SOT223	ZETEX	FEC