PreFRED Bill of Materials - Production

REFERENCE	Part	Manufacturer	Description	Package	Qty/Bd	Provided by U. Chicago	Comments	Spares (%)	Total Quantity
U56	1241mf	AT&T	PECL Receiver	SOIC16	1	no		15	10
Tz1	5KP5.0A	Gen.Instr.	Transient Suppressor	Axial Lead	1	yes		0	8
U55	SN74AS04D	TI	Hex inverter	soic14	1	no		15	10
U53 U54	SN74bct760DW	TI	Open Collector Octal Buffer	soic20	2	no		15	19
U60 U61 U62	74fct574aso	IDT	Octal D Register	soic20	3	yes		0	24
U57-U59, U63-U65	74hct244d	Phillips	Octal Buffers	soic20	6	no		15	56
LED1,LED3,LED4	551-0207	Dialight	green LEDs	DIP-2	3	no		15	28
LED2,LED5,LED9	551-0307	Dialight	yellow LEDs	DIP-2	3	no		15	28
LED6,LED7,LED8	551-0407	Dialight	red LEDs	DIP-2	3	no		15	28
U52	SN74CBT3257D	TI	multiplexer	soic16	1	no		15	10
C5-C7,cd1-c76	C1210C104K5RAC	KEMET	0.1uF	1206	79	no	or equivalent	0	632
R_C1 - R_C3	CR732B2-680M/510M	Bitech	RC-Terminator	1206	3	yes		0	24
C1 C2 C3 C4	PCT3106CT-ND	Panasonic	10uf	49BC_H	4	no		15	37
FP2 FP3	499141-1	AMP	10 pin connector		2	no		15	19
P3	64785+64176	ERNI	220 pin connector		1	yes	Press In Connector	0	8
P1 P2	0201 160 2101.00	HARTING	160 pin connector		2	yes		0	16
P0	64784	ERNI	95 pin connector		1	yes	Press In Connector	0	8
FP1	RPS-80RLM	Honda	80pin		1	no		15	10
U50 U51	cy7b991-5jc	Cypress	Prog. clock	plcc32	2	no		15	19
U41- U49	ds90c031tm	National	LVDS Driver	soic16	9	no		15	83
U66 U67	epc1pc8	Altera	PROM	dip8	2	no	Not installed	15	19
U66 U67	KS324-85GG	Advanced Interconnect	dip8 socket	dip8	2	no		15	19
U40	epf10k100_503-3dx	Altera	FPGA	PGA-503	1	yes		0	8
U39	epf10k30_356-3	Altera	FPGA	BGA-356	1	no		15	10
U38	epm7128_160	Altera	EPLD	PQFP-160	1	no		15	10
F1	2-331272-6	AMP	Spring Socket		2	no		15	19
F1	10A Pico-ii fuse	Littelfuse	Fuse	Axial Lead	1	no	Not installed	15	10
S2 S3	GDB10 10 bit sw	C&K	Switch	DIP20	2	yes		0	16
U1- U8	7200L25SO	IDT	256x18 FIFO	soic28	8	yes		0	64
U72- U75	74fct541aso	IDT	Octal Buffer/Receiver	soic20	4	yes		0	32
U32 -U37	mcm62995afn15	Motorola	16Kx16 Static RAM	plcc52	6	yes		0	48
U68	mdu_38f_10	Data Delay Devices	Delay Line (10ns)	dip8	1	yes		0	8
R12-R20	res,240,1/8W,5%			1206	9	no	or equivalent	0	72
R24,R25	res,390,1/8W,5%			1206	2	no	or equivalent	0	16
R8	res,2K,1/8W,5%			1206	1	no	or equivalent	0	8
R9,R10,R21-R23	res,10K,1/8W,5%			1206	5	no	or equivalent	0	40
R11	res,100K,1/8W,5%			1206	1	no	or equivalent	0	8
R4-R7	res,1M,1/8W,5%			1206	4	no	or equivalent	0	32
R1 R2 R3	766141102GSP	CTS	1K Res Net	soic14	3	yes		0	24
U69 U70	smd99f_5110	Data Delay Devices	5-tap delay, 22ns/tap	8pin	2	yes		0	16
U71	smfldm_ttl_125	ECC	125ns delay line w/25ns taps	soic14	1	yes		0	8
U30 U31	sn74abte16245dl	TI	16 bit Transceiver	soic48	2	no		15	19
U28 U29	74hct123d	Phillips	Dual Retriggerable One-shot	soic16	2	no		15	19
U9- U27	74ls670	Motorola	4x4 Register File w/Tri State	soic16	19	no		15	175
S1	7101K2AV2BE	C&K	Toggle Switch		1	yes	Final part T.B.D.	0	8
RC1 RC2 RC3 RC4	PRC202750K/500M	CMD	RC-Terminator	soic20	4	no		15	37
P1-2,FP1-3 screw			3-56 x 3/8 S.S. SLTD pan head mach screw		10	no		0	80
P1-2,FP1-3 nut			3-56 S.S. nut		10	no		0	80

University of Chicago — Mircea Bogdan — mircea@frodo.uchicago.edu — (773)702-7801

Enrico Fermi Institute — Ray Culbertson — rlc@uccdf.uchicago.edu — (773)702-7481

Electronics Design Group

Assembly DWG C-2394 Rev A

Bill of materials Version A0

5/27/99