

DIRAC Bill of Materials - production								
Reference	Part	Manufacturer	Description	Package	Qty/Bd	From UC	% Spare	Comment
U104	BRF1A16NB	Lucent	PECL Receiver	SOIC-16	1	No	15	
Tz1	5KP5.0A	Gen.Instr.	transient suppressor	do41	1	No	15	
U100,U221	SN74BCT760DW	TI	Open-Collector Octal Buffers	SOIC-20	2	No	15	
U1,U2	SN74ABTE16245DW	TI	16-bit transceiver	SOIC-48	2	No	15	
U219,U220	74HCT123D	Phillips	Dual Retriggerable 1 shot	SOIC-16	2	No	15	
U90-96,U111-128	74HCT244D	Phillips	Octal Buffers	SOIC-20	25	No	15	
U86-89,U129-144	74HCT245D	Phillips	Octal Transceivers	SOIC-20	20	No	15	
U145-170	74LS670N	Motorola	4x4 Register File w/ Tri-state	SIOC-16	26	No	15	
U217,U218	DS90C32TM	National	LVDS Receiver	SOIC-16	2	No	15	
U187-216	DS90C31TM	National	LVDS Driver	SOIC-16	30	No	15	
LED1,LED4	553-0332	Dialight	Yellow/Green Bilevel LED	DIP-4	2	No	15	
LED2	553-0331	Dialight	Yellow/Red Bilevel LED	DIP-4	1	No	15	
LED3	553-0321	Dialight	Green/Red Bilevel LED	DIP-4	1	No	15	
C6-10,CD1-150	C1206C104K5RAC	KEMET or equiv	0.1 uF/50V ceramic	1206	155	No	0	
C1-5	PCT3106CT-ND	Panasonic or equiv	10 uF/16V tantalum	49BC_H	5	No	0	
U69-83	CY7C199-15VC	Cypress	32Kx8 SRAM	SOJ-28	15	No	15	
U31,U33,U34	EPM7064SLC44-10	Altera	64 Macrocell EPLD	SOCK-44	3	No	15	
U180-183	EPM7064SLC44-10	Altera	64 Macrocell EPLD	SOCK-44	4	Yes	15	preprogrammed
U32	EPM7064SLC44-10	Altera	64 Macrocell EPLD	SOCK-44	1	Yes	15	preprogrammed
* Note: U180-183 are stuffed with preprogrammed chip labled "CSUM". U32 with chip labled "ETSUM"								
U25-30	EPM7128SQC100-15	Altera	128 Macrocell EPLD	QFP-100	6	No	15	
U24	EPM7128SQC160-7	Altera	128 Macrocell EPLD	PQFP-160	1	No	15	
U20-23	EPM7128SLC84-10	Altera	128 Macrocell EPLD	SOCK-84	4	No	15	
U19	EPM7256SQC208-15	Altera	256 Macrocell EPLD	QFP-208	1	No	15	
F1	2-331272-6	AMP	Spring Socket		2	No	15	
F1	R251010	Littelfuse	10A Pico-ii fuse	fuse	1	No	0	Not Installed
S1,S2	GDB10	Augat	10 Bit Dip Switch	DIP-20	2	No	15	
U4-9,U11,U172-178	IDT72205LB25J	IDT	256x18 FIFO	jedec-sq-68	14	No	15	
U106-110	IDT74FCT541ASO	IDT	octal buffer/line driver	SOIC-20	5	No	15	
U179,U184-186	IDT74FCT574ASO	IDT	octal D register	SOIC-20	4	No	15	
U171	MDU-38F-10	DataDelayDev.	multiple delay units (10ns)	DIP-8	1	No	15	
R15,R28	100 ohm resistor		100 ohm resistor,1/8W, 5%	1206	2	No	0	
R27	240 ohm resistor		240 ohm resistor, 1/8W, 5%	1206	1	No	0	
R20,R21	390 ohm resistor		390 ohm resistor,1/8W, 5%	1206	2	No	0	
R7-10,R29-31	1K ohm resistor		1K ohm resistor,1/8W, 5%	1206	7	No	0	

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R25	10K ohm resistor		10K ohm resistor, 1/8W, 5%	1206	1	No	0	
R24,R26	100K ohm resistor		100K ohm resistor, 1/8W, 5%	1206	2	No	0	
R11-14	1M ohm resistor		1M ohm resistor, 1/8W, 5%	1206	4	No	0	
R22,R23	766163101GSP	CTS	100 Ohm Resistor Pack	SOIC-16	2	No	15	
R3,R4	766141102GSP	CTS	1K Resistor Pack	SOIC-14	2	No	15	
U18,U222	FXLDM-TTL-250G	EC2	250ns Delay line w/ 25ns taps	Big SOIC-14	2	No	15	
RC1-5	PRC202 750K/500M	CMD	AC term. net.(75ohm/50p)	SOIC-20	5	No	15	
FP1,FP2,FP3	RPS-80RLM	Honda	Right Angle Header	80pin	3	No	15	
BB	499141-1	AMP	Right Angle Header	10pin	1	No	15	
FP4	499141-4	AMP	Right Angle Header	20pin	1	No	15	
P1,P2	0201 160 2101.00	Harting	160pin DIN	160pin	2	Yes	0	
P0	64784	ERNI	95 pin 2mm HM	95 pin	1	Yes	0	Press in
P3 (P5)	64785	ERNI	110 pin 2mm HM (w/o key)	110 pin	1	Yes	0	Press in
P3 (P6)	64176	ERNI	110 pin 2mm HM (w/key)	110pin	1	Yes	0	Press in
P1-2,FP1-4,BB screws			3-56 x 3/8 S.S. SLTD pan head mach screw		14	No	0	
P1-2,FP1-4,BB nuts			3-56 S.S. nut		14	No	0	
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Electronics Design Group								
Assembly DWG C-2353 Rev C								
Bill of materials Version C5								
7/20/99								