

ITEM #	Ref Des	Item Description	Value	Supply Details				From Concept 07Apr04		FIT/ Need	
				Source #1		Source #2		Qty	NOT FIT	ITEM #	Qty Per BOC
				Manuf/ Supplier 1	Part Number	Manuf/ Supplier 2	Part Number				
1		BOC Rev C pcb						1		1	1
2	U32,U34	Latt ISPLSI2032VE-225LT44 3V3 4NS CPLD		Latt/ SiConcept	ispLSI2032VE-225LT44	Latt	ispLSI2032VE-180LT44	2		2	2
3	U106,U119,U134,U145	Latt ISPLSI2128VE-250LT100 3V3 4NS CPLD		Latt	ispLSI2128VE-250LT100			4		3	4
4	U47	Latt ISPLSI5384VE-100LB272 3V3 10NS CPLD		Latt	ISPLSI 5384VE-100LB272			1		4	1
5	U95,U98,U99	PI90LVT14L ECL 1:5 CLOCK BUFF		Pericom SiConcept	PI90LVT14L			3		5	3
6	U12,U73	SY100EP14UK4I ECL DIF. CLOCK BUF.		Micro/Syn Focus	sy100EP14uk4i	ONSemi/ EBV	mc100EP14DT	2		6	2
7	U123	SY100EP16VZC ECL DIF. BUF.		Micro/Syn Focus	sy100EL16vzc	ONSemi/ EBV	mc100EP16D	1		7	1
8	U11,U22,U25,U56	SY100EP21LZI PECL - TTL XLAT		Micro/Syn Focus	sy100EPT21LZC (or .LZI)	ONSemi/ EBV	mc100EPT21D	4		8	4
9	U7,U35,U55,U87	SY100EPT22VZI 3V/5V DUAL LVTTTL-LVP XLAT		Micro/Syn Focus	sy100EPT22vzi			4		9	4
10	U77	SY100EP32VZI ECL CLK DIVBY2		Micro/Syn Focus	sy100EP32vzi	ONSemi/ EBV	mc100EP32D	1		10	1
11	U66,U76	SY100EL34LZC 3V ECL /2 /4 /8 CLOCK DIV. CHIP		Micro/Syn Focus	SY100EL34LZC			2		11	2
12	U62,U78,U81	MC100EP57DT ECL DIF. BUF.		Micro/Syn Focus	sy100ep57vk4i	ONSemi/ EBV	mc100EP57DT	3		12	3
13	U133	SY100EL92ZC TRIPLE PECL-LVP XLAT		Micro/Syn Focus	sy100EL92ZC	ONSemi/ EBV	mc100LEVEL92dw	1		13	1
14	U72	SY100EP195VTI ECL PROG DELAY CHIP		Micro/Syn Focus	sy100EP195vti	ONSemi/ EBV	mc100EP195FA	1		14	1
15	U83,U89	SY55855VKI PECL - LVDS XLAT		Micro/Syn Focus	SY55855VKI			2		15	2
16	U65	SY89421VZC PLL & OSC		Micro/Syn Focus	SY89421VZC			1		16	1
17	U13	NSC DS90LV017ATM SINGLE LVDS TX		Pericom SiConcept	pi90LV017AW	ONSemi/ EBV	ds90LV017ATM	1		17	1
18	U8,U38,U48,U49,U74,U75,U86,U90,U96,U107,U108,U114,U115,U125,U126,U135,U136,U140,U141,U151	NSC DS90LV018ATM SINGLE LVDS RX		Pericom SiConcept	pi90LV018AW	ONSemi/ EBV	ds90LV018ATM	20		18	20
19	U41,U42,U53,U54,U60,U61,U67,U68,U84,U85,U93,U94,U100,U101,U112,U113,U120,U121,U127,U128,U143,U144,U148,U149,U156	NSC DS90LV048ATM QUAD LVDS RX		NatSemi	DS90LV048Atm			25		19	25
20	U10,U43,U44,U50,U51,U58,U59,U69,U70,U79,U80U88,U91,U92,U102,U103,U109,U110,U117,U118,U129,U130,U137,U138,U146,U147	PHOS4 - ATLAS 4 CHAN. DELAY						26		20	26
21	U57	I561LV256-15J 3V3 32KX8BIT SRAM		ICSI/ Focus	I561LV256-15J			1		21	1
22	U3	MC74HC05AD HEX OC INVERTER		Mot / alt	MC74HC05AD or Equiv			1		22	1
23	U1,U2,U5,U6,U9,U14,U17,U19	MC74HCT245ADW OCTAL RX-TX		Mot	MC74HCT245ADW			8		23	8
24	U15,U16,U18,U31,U39,U46	SN74LV245BDW OCTAL RX-TX		TI	SN74LV245ADW			6		24	6
25	U23,U27,U105,U116,U122,U132,U142,U150	SN74ALVT162244D66 16 BIT WIDE RX-TX		TI	SN74ALVT162244D66			8		25	8
26	U152-U155	NC7502M5 SINGLE 2 IP "NOR" GATE		F-Child	NC7502M5			4		26	4
27	U4,U20,U21,U33,U37,U63	NC75Z08M5 SINGLE 2 IP "AND" GATE		F-Child	NC75Z08M5			6		27	6
28	U30,U45,U71,U104,U131	Linear LT3010MS8E 50MA LDO REG		LinTechy	LT3010EMS8E			5		28	5
29	U36	MAX1239EEE 12 CHAN. ADC-I2C BUS 3V3		MaximDirect	MAX1239EEE			1		29	1
30	U40,U52,U64,U82,U97,U111,U124,U139	MAX4373TEUA CURRENT SENSE AMP		MaximDirect	MAX4373TEUA			8		30	8
31	U26	MAX6714CUB VCC - 3 RAIL MONITOR		MaximDirect	MAX6714CUB			1		31	1
32	X1	C-MAC CFP5-73-40MHZ Min Xtal Osc	40.MHZ	C-MAC	SPXO 018042			1		32	1
33	D1-D4	RS1A DIODE SMA: 1A: 50V	RS1A					4		33	4

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34	C24,C231-C238	22PF SMD 0805 CAP -	22P					9	9	34	-
35	C3	47PF SMD 0805 CAP - 08055C470KAT00	47P					1		35	1
36	C12,C15,C19,C28,C31	10NF 50V SMD 0805 CAP - 08055C103KAT00	10N					5		36	5
37	C6,C7,C11,C14,C18,C21,C23,C25,C27,C30,C33-C59,C61-C64,C66-C87,C89-C93,C95-C227	100NF SMD 0805 CAP - CM21X7R104K25VA1	100N					201	1	37	200
38	C17	1UF SMD 1206 CAP - CM316X7R105K16VA1	1UO					1		38	1
39	C13,C16,C22,C29,C32	4.7UF 20V CAP - TPSA475K020R LO ESR CASE A	4U7					5		39	5
40	C1,C2,C4,C9	10UF 25V CAP - TAJC106K025R CASE C	10U					4		40	4
41	C88,C94	10UF 10V CAP - TAJT106K010R LO PROF CASE T	10U					2		41	2
42	C5,C8,C10,C20,C26	100UF 16V CAP - TPSD107K016R0125 CASE D	100U					5	2	42	3
43	LK1,LK2,LK7,LK10,LK11,LK14-LK17,LK22,LK23	0R0 SMD 0603 RES	0R0					11		43	11
44	R62,R80,R247,RT1-RT96	100R SMD 0603 RES	100R					99		44	99
45	R106,R115,R130,R175,R191,R205,R211,R231	6R8 SMD 0805 RES	6R8					8		45	8
46	R21,R32,R36,R39,R40,R70,R75,R102,R113,R120,R127,R128,R134,R146,R147,R161,R164,R167,R169,R174,R177,R182,R186,R187,R189,R190,R194,R203,R206,R207,R209,R212,R214,R217,R229,R230,R232,R236	100R SMD 0805 RES	100R					38	3	46	35
47	R14,R15,R116,R124,R125,R129,R131,R133,R135-R137,R140,R142-R145,R148,R149,R152,R153,R157,R158,R160,R162,R163,R168,R170-R173,R176,R215,R216,R218,R219	110R SMD 0805 RES	110R					35		47	35
48	R3,R4,R16,R23,R28,R29,R31,R33,R35,R38,R41,R44-R46,R66,R67,R81,R82,R96,R97,R118,R122,R123,R159,R166,R178,R179,R183,R185,R210,R213	220R SMD 0805 RES	220R					31		48	31
49	R5,R8,R132,R180,R184,R188,R238	560R SMD 0805 RES	560R					7	3	49	4
50	R1,R34,R37,R42,R43,R76-R78,R108-R111,R150,R151,R154,R155,R195,R196,R198,R199,R220,R221,R225,R226,R233,R234,R244,R245,788,R88,R88B	1K0 SMD 0805 RES	1K0					31	2	50	29
51	R114,R141,R165,R204,R228	1.5K SMD 0805 RES	1K5					5		51	5
52	R6,R7,R10,R30,R47-R50,R54,R55,R58-R61,R63-R65,R69,R71-R73,R93,R98,R103,R138,R139,R181	4.7K SMD 0805 RES	4K7					27		52	27
53	R2,R9,R11-R13,R17-R20,R22,R51-R53,R56,R57,R74,R84,R92,R95,R99-R101,R104,R105,R107,R112,R117,R119,R121,R126,R156,R192,R193,R197,R222,R224,R227,R235,R237,R239-R241,R246	10K SMD 0805 RES	10K					43		53	43
54	R25,R27,R90,R94,R200,R202,R208,R223,R246	16K SMD 0805 RES	16K					9		54	9
56	R24,R26,R85,R87,R89,R91,R201,R242	56K SMD 0805 RES	56K					8		56	8
57	R83	68K SMD 0805 RES	68K					1		57	1
58	R68,R68B	0R0 SMD 1206 RES	0R0					2	1	58	1
59	TH1-TH6	10K THERMISTOR	10K	Semitec	103KT1608-T-P			6		59	6
60	RX1-RX8,TX1-TX4	BOC1 TYPE2 RX/TX MODULE CONN.		Samtec / Toby	QSE 020-01-LDA			12		60	12
61	M1	DC-DC Conv (not used)						1	1	61	-
62	S-LINK	S_LINK PLUG IN CONN.		AMP	120521-1 also CERN 09.55.41.064.3	Molex	52763-0649	1		62	1
63	SW1-SW3	ROTARY HEX COMP. SWIT.						3		63	3
64	LAS-EN	LED flat-top Kingbright Red	RED					1		64	1
65	EXT,INT	LED flat-top Kingbright Yellow	YELL					2		65	2
66	3V-OK,5V-OK	LED flat-top Kingbright Greer	GRN					2		66	2
67	12V	SMD030 SURFACE MOUNT FUSE	300MA					1		67	1
68	3V3	R6E1100 RESETTABLE FUSE	11A					1		68	1
69	5V	R6E300 RESETTABLE FUSE	3A					1		69	1
73	RP2,RP3	160 WAY RIGHT ANGLE SOCKET		Harting	0204.160.1101			2		73	2
74	SK1,SK2	2MM 2x4 WAY SOCKET		Harting	M22-6120422			2		74	2
75	SK3	8 WAY MICRO-MATCH PCB SOCKET			7-215079-8			1		75	1
76	LK3-LK6,LK8	2 PIN 0.6 INCH PITCH JUMPER						5	5	76	-
77	TP1-TP31	TEST POINT 1.02MM BLK						31	31	77	-
78	J1-J6	HIROSE 50 WAY DF12 SMD CONN. (Pixel Option)						6	6	78	-
79	R248-R251	1K0 SMD 0603 RES	1K0					4		79	4
80	R79,R86,R252-R257	100K SMD 0805 RES	100K					8		80	8
TOTAL								836	64	76	772

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Mechanical Parts

Item Description	Value	Manuf/ Supplier 1	Part Number	Manuf/ Supplier 2	Part Number
BOT HANDLE ASSY RITTAL 3688770-X10					
FRONT PANEL RITTAL 3685540					
TOP HANDLE ASSY RITTAL 3688771-X10					
Panel and Handle Assembly (machined & Printed)					
SMC_MOUNT BASE					
SMC_MOUNT LID					
SMC_MOUNT LID "SCREW M2x5"					
SMC_MOUNT TO PANEL "SCREW M2x5"					
SMC_MOUNT TO PCB "SCREW M2x5"					
S-LINK KEYING PIN SCHROFF 60827-02€					
S-LINK STANDOFF SCHROFF 60897-27€					
S-LINK TO PCB SCREW "SCREW M2.5x5"					
VME CONN. "NUT M2.5"					
VME CONN. "SCREW M2.5x10 / 12"					

Components Not Used in RevC

ITEM #	Item Description	Value	Notes
70	QUICK BLOW SM FUSE	*10A	10 SPARES = 508-731 **FUSE ONLY**
71	QUICK BLOW SM FUSE + HOLDER	3A	10 SPARES = 508-718
72	DC-DC CONVERTER		RS 191-4837 TEM 3-1211 12V-5V
55	33K SMD 0805 RES	33K	FEC 912-037

Notes for Pixels

- 1) For each opto RX removed (item60): also remove 3 x item 19 & 3 x item20 & 12 x item44.
- 2) Remove data-buffers (item 25) and replace with smd connectors (item78) according to your needs.