

Las Cumbres Observatory Global Telescope Network Production

Printed by Rich Lobdill

Printed on November 09, 2011

Page Arena > Workspace Items > Bill of Materials > Rich Basic

All information contained in this document is proprietary and confidential.

Part > Assembly > Printed Circuit Board Assembly

Item #830-00002 Unreleased

PCB Stuffed, Sinistro Computer Sequencing Unit

Revision: Working Revision * | **Modified, 0 Views Locked**

# Item Number	Item Name	Quantity	Ref Des
120-00012	CAP CER 10PF 50V 5% C0G 0603	4 each	C14, C21, C46, C54
120-00013	CAP CER 1000PF 50V 5% C0G 0603	1 each	C8
120-00014	CAP CER 10000PF 50V 10% X7R 0603	2 each	C37, C38
120-00015	CAP CER .1UF 50V 10% X7R 0603	104 each	C3, C5, C7, C9, C10, C11, C12, C15, C18, C20, C22, C23, C24, C25, C26, C27, C28, C30, C33, C34, C35, C36, C39, C42, C43, C44, C45, C47, C48, C49, C50, C51, C52, C53, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C71, C72, C73, C74, C75, C76, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C103, C105, C106, C108, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C128, C129, C130, C131, C132, C133, C134, C135, C137, C138, C140, C141, C142
120-00017	CAP CER .15UF 50V 10% X7R 0805	5 each	C4, C6, C16, C17, C19
120-00018	CAP CER .47UF 50V X7R 0805	1 each	C110
120-00020	CAP CER 1UF 50V X7R 1206	1 each	C2
120-00022 rev 1	CAPACITOR TANT 10UF 6.3V 10% SMD	15 each	C1, C29, C31, C69, C70, C77, C78, C101, C102, C109, C111, C112, C126, C127, C136
120-00023	CAPACITOR TANT 22UF 10V 10% SMD	6 each	C13, C32, C40, C41, C55, C56
120-00024	CAPACITOR TANT 47UF 10V 10% SMD	2 each	C104, C107
125-00010 rev 1	CONN HEADER 10POS .100 STR 15AU	2 each	J3, J5
125-00014	TEST POINT PC MINI .040"D BLACK	3 each	TP1, TP2, TP3
125-00021	USB RCPT B-TYPE R/A FULL BACK	1 each	J4
125-00022	BERGSTIK II .100" DR STRAIGHT	1 each	J6
125-00023 rev 1	Connector, Edge Mount, 156 POS, QMSS-EM-PC4	1 each	J2
125-00026	CONN HEADER 8POS .100 STR 15AU	2 each	JP1, JP2
125-00028	CONN HEADER 3POS .100 VERT GOLD	1 each	J8
125-00032	Connector, QMS_EDGE_PWR_PINS	1 each	J1
140-00007	DIODE SCHOTTKY 30V 200MA SOT-23	2 each	D3, D4
140-00009 rev 1	LED GREEN FACE UP 1206	2 each	D2, D5
140-00010	DIODE ULTRAFast HI COND SOT-23	1 each	D1
150-00017	IC, C5310-D105-SV033-RFL-A1-100	1 each	U14

# Item Number	Item Name	Quantity	Ref Des
150-00018	IC EEPROM 64KBIT 400KHZ 8SOIC	2 each	U12, U28
150-00019	OPTOCOUPLER DUAL BI 15MBD 8-SOIC	1 each	U32
150-00024	OSCILLATOR 24.000MHZ 3.3V SMD	1 each	U2
150-00026	IC LVDS CLK DVR 1:10 PROG 32-QFN	1 each	U13
150-00027	IC MCU USB PERIPH HI SPD 128TQFP	1 each	U11
150-00031 rev 1	IC SILICON SERIAL NUMBER SOT-23	1 each	U20
150-00033	IC CYCLONE III FPGA 16K 256FBGA	1 each	U9
150-00034	IC CONFIG DEVICE 4MBIT 8-SOIC	1 each	U1
150-00037 rev 1	RECEIVER 3.3V LVDS HS SOT23-5	1 each	U3
150-00041	IC FIFO SUPERSYNC 10NS 64-TQFP	4 each	U15, U16, U18, U19
150-00045	IC LDO REG LOW NOISE 1.5A 5-DD	1 each	U26
150-00046	IC LDO REG LONoise 1.5A 2.5V 5DD	1 each	U27
150-00047	IC OP AMP R-R TSOT23-5	1 each	U8
150-00048	IC DAC 12BIT R-R SC70-6	1 each	U4
150-00050	IC LP SUPERVISRY CIRCUIT SOT23-5	2 each	U6, U21
150-00051	IC TXRX RS-232 W/SHTDWN 16-SSOP	1 each	U5
150-00053	IC BUFF TRI-ST QD N-INV 14SOIC	4 each	U10, U17, U23, U24
150-00054	IC, MSP430F5438	1 each	U29
150-00055	SUPPRESSOR ESD 24VDC SOT-23 SMD	1 each	U7
150-00058	IC TXRX RS485 3/5V 8-SOIC	2 each	U30, U33
150-00059	IC INVERTER HEX 1INPUT 14SOICN	1 each	U25
150-00060	IC HEX SCHMITT-TRIG INV 14-SOIC	1 each	U44
150-00061	IC QUAD 2IN POS-NOR GATE 14-SOIC	1 each	U22
155-00005 rev 1	FERRITE BEAD 600 OHM 2.0A 1206	2 each	L2, L5
155-00007	INDUCTOR SHIELDED 3.3UH SMD	1 each	L6
155-00008	INDUCTOR 56UH 300MA 1812 10%	4 each	L1, L3, L4, L7
175-00005 rev 1	PCB, Sinistro Computer Sequencing Unit	1 each	
180-00019	RES 100K OHM 1/10W 1% 0603 SMD	4 each	R3, R14, R18, R32
180-00020	RES 100 OHM 1/10W 1% 0603 SMD	1 each	R23
180-00021	RES 10.0K OHM 1/10W 1% 0603 SMD	7 each	R1, R9, R10, R13, R17, R21, R31
180-00022	RES 1.00K OHM 1/10W 1% 0603 SMD	4 each	R7, R8, R11, R30
180-00023	RES 1.02K OHM 1/10W 1% 0603 SMD	2 each	R39, R42
180-00024	RES 1.10K OHM 1/10W 1% 0603 SMD	1 each	R41
180-00025	RES 1.50K OHM 1/10W 1% 0603 SMD	3 each	R56, R57, R58
180-00026	RES 1.78K OHM 1/10W 1% 0603 SMD	1 each	R40
180-00027	RES 220 OHM 1/10W 1% 0603 SMD	1 each	R19
180-00028	RES 22.0 OHM 1/10W 1% 0603 SMD	7 each	R5, R6, R12, R16, R22, R24, R43
180-00029	RES 24.9 OHM 1/10W 1% 0603 SMD	1 each	R2
180-00030	RES 330 OHM 1/10W 1% 0603 SMD	1 each	R20
180-00031	RES 36.0K OHM 1/10W 1% 0603 SMD	1 each	R15

# Item Number	Item Name	Quantity	Ref Des
180-00032	RES 3.00K OHM 1/10W 1% 0603 SMD	4 each	R25, R26, R27, R28
180-00043 rev 1	RES ARRAY 10K OHM 5% 4 RES SMD	2 each	RN1, RN4
180-00045	RES ARRAY 1.0K OHM 5% 4 RES SMD	3 each	RN2, RN3, RN5
180-00062	RES 390 OHM 1/8W 1% 0805 SMD	8 each	R4, R29, R33, R34, R35, R36, R37, R38
180-00064	RES 3.00K OHM 1/8W 1% 0805 SMD	4 each	R50, R51, R53, R54
181-01001 rev 1	RES 1.00K OHM 1/8 W 1% 0805 SMD	4 each	R44, R46, R48, R49
181-01210	RES 121 OHM 1/8 W 1% 0805 SMD	2 each	R52, R55
181-01500 rev 1	RES 150 OHM 1/8 W 1% 0805 SMD	2 each	R45, R47