

Capture CIS Standard Bill Of Materials - Standard Report
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Schematic Name = 100221094CPF-PwrSwitchSchematic
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Slot 1 Iridium Bluetooth Motor

Item Number	Quantity	Part Reference	Value	Tolerance	Rating	Type	Manufacturer Number	Distributor Number	Description	Rated Voltage	Manufacturer	PART_NUMBER
1	14	C1 C2 C5 C6 C13 C15 C17 C18 C25 C27 C29 C30 C37 C39	0.10uF	10%					CAP, CER, 0.10uF, 16V, 10%, X7R, 0603	16V	Kemet	C0603C104K4RAC
2	5	C3 C4 C16 C28 C40	1.0uF	10%					CAP 1.0UF 16V CERAMIC X7R 0805	16V	Kemet	C0805C105K4RAC
3	15	C7 C8 C9 C10 C11 C19 C20 C21 C22 C23 C31 C32 C33 C34	0.22uF	10%						25V	Kemet	C0603C224K3RAC
4	3	C12 C24 C36	470uF	20%		Hybrid Polymer			CAP POLY HYB 470UF 20% 16V SMD	16V	United Chemi-Con	HHXB160ARA471MJA0G
5	3	C14 C26 C38	47,000.0pF	10%						50V	Kemet	C0603C473K5RAC
6	3	D1 D4 D5	SMBJ12A-13-F			SMBJ12A			TVS DIODE 12VWM 19.9VC SMB		Diodes Incorporated	SMBJ12A-13-F
7	3	D2 D3 D6	SMBJ6.5A-13-F			SMBJ6.5A		SMBJ6.5CA-FDICT-ND	TVS DIODE 6.5VWM 11.2VC SMB		Diodes Incorporated	SMBJ6.5A-13-F
8	1	J1	5650948-5						CONN DIN PLUG 48POS RT ANG PCB		TE Connectivity AMP Connectors	5650948-5
9	1	J2	M80-5401042			Datamate J-Tek	M80-5401042		CONN HDR 2MM R/A W/SCREW 10POS		Harwin Inc.	M80-5401042
10	1	J3	M80-5401242			Datamate J-Tek	M80-5401242	952-1931-ND	2X6POS MALE H BOARD MOUNT		Harwin Inc.	M80-5401242
11	2	J4 J5	M80-5400642			Datamate J-Tek			CONN HDR 2MM R/A W/SCREW 6POS		Harwin Inc.	M80-5400642
12	6	JP1 JP2 JP3 JP4 JP5 JP6	LS=0.100"						22 AWG Jumper, Pins 1-2			MISC_JMPR-TH-3PIN-JUMP1-2
13	3	L1 L2 L3	MPZ2012S221A						FERRITE CHIP 220 OHM 3A 0805		TDK Corporation	MPZ2012S221A
14	3	L4 L5 L6	BNX024H01L						EMI/RFI Suppressors & Ferrites 100M Ohm 15A SMD	50V	Murata	BNX024H01L
15	3	Q1 Q3 Q4	IRFR7440TRPBF						MOSFET N CH 40V 90A DPAK	40V	Infineon Technologies	TMP-2164
16	7	R1 R5 R18 R27 R35 R49 R57	TBD						TO BE DETERMINED, HEIGHT 0.5mm			TBD_R0603
17	11	R2 R3 R6 R8 R9 R28 R31 R32 R50 R53 R54	0.0	Jumper					RES 0.0 OHM 1/10W 0603 SMD		Vishay/Dale	CRCW06030000Z0EA
18	24	R11 R12 R13 R14 R15 R16 R19 R20 R34 R36 R37 R38 R39	100k	5%						75V	Vishay Dale	CRCW0603100KJNEA
19	1	R21	0.02	±1%					RES .02 OHM 2W 1% 2512 SMD		Vishay Dale	WSL2512R0200FEA18
20	3	R22 R44 R66	10	1%						75V	Vishay	CRCW060310R0FKEA
21	3	R23 R45 R68	453.0K	1%						75V	Vishay	CRCW0603453KFKEA
22	3	R24 R46 R67	22.1K	1%						75V	Vishay	CRCW060322K1FKEA
23	3	R25 R47 R69	33	5%						75V	Vishay	CRCW060333R0JNEA
24	3	R26 R48 R70	42.2K	1%						75V	Vishay	CRCW060342K2FKEA
25	2	R43 R65	0.04	±1%					RES .04 OHM 1W 1% 2512 SMD		Vishay/Dale	WSL2512R0400FEA
26	12	SB3 SB7 SB9 SB12 SB16 SB19 SB21 SB23 SB27 SB32 SB34	0603						MISC 2 PIN JUMPER SOLDER BRIDGE 0603			MISC_SOLDERBRIDGE_SM0603
27	2	TS1 TS2	824011						TVS DIODE 5VWM 8.5VC SOT23		Würth Electronics Inc	824011
28	1	U1	LTC6930IMS8-7.37#PBF						IC OSC SILICON 7.3728MHZ 8-MSOP		Linear Technology	LTC6930IMS8-7.37#PBF
29	1	U3	MAX3244EEAI+						IC TXRX RS-232 W/SHTDWN 28-SSOP		Maxim Integrated	MAX3244EEAI+
30	3	U4 U9 U14	SN74LVC1G04DBVR						IC SINGLE INVERTER-GATE SOT-23-5		Texas Instruments	SN74LVC1G04DBVR
31	3	U5 U11 U16	LTC4380IMS-3#PBF						IC LOW CUR SURGE STOPPER 10MSOP		Linear Technology	LTC4380IMS-3#PBF
32	3	U6 U10 U15	LTC2946CMS#PBF						IC ENERGY MONITOR I2C 16MSOP		Linear Technology	LTC2946CMS#PBF
33	2	U8 U13	MAX3226EEAE+						IC TXRX RS232 250KBPS SD 16-SSOP		Maxim Integrated	MAX3226EEAE+

Slot 2 CTD Nitrate unused

Item Number	Quantity	Part Reference	Value	Tolerance	Rating	Type	Manufacturer Number	Distributor Number	Description	Rated Voltage	Manufacturer	PART_NUMBER
1	14	C1 C2 C5 C6 C13 C15 C17 C18 C25 C27 C29 C30 C37 C39	0.10uF	10%					CAP, CER, 0.10uF, 16V, 10%, X7R, 0603	16V	Kemet	C0603C104K4RAC
2	5	C3 C4 C16 C28 C40	1.0uF	10%					CAP 1.0UF 16V CERAMIC X7R 0805	16V	Kemet	C0805C105K4RAC
3	15	C7 C8 C9 C10 C11 C19 C20 C21 C22 C23 C31 C32 C33 C34	0.22uF	10%						25V	Kemet	C0603C224K3RAC
4	3	C12 C24 C36	470uF	20%		Hybrid Polymer			CAP POLY HYB 470UF 20% 16V SMD	16V	United Chemi-Con	HHXB160ARA471MJA0G

5	3	C14 C26 C38	47,000.0pF	10%						50V	Kemet	C0603C473K5RAC
6	3	D1 D4 D5	SMBJ12A-13-F			SMBJ12A			TVS DIODE 12VWM 19.9VC SMB		Diodes Incorporated	SMBJ12A-13-F
7	3	D2 D3 D6	SMBJ6.5A-13-F			SMBJ6.5A		SMBJ6.5CA-FDICT-ND	TVS DIODE 6.5VWM 11.2VC SMB		Diodes Incorporated	SMBJ6.5A-13-F
8	1	J1	5650948-5						CONN DIN PLUG 48POS RT ANG PCB		TE Connectivity AMP Connectors	5650948-5
9	1	J2	M80-5401042			Datamate J-Tek	M80-5401042		CONN HDR 2MM R/A W/SCREW 10POS		Harwin Inc.	M80-5401042
10	1	J3	M80-5401242			Datamate J-Tek	M80-5401242	952-1931-ND	2X6POS MALE H BOARD MOUNT		Harwin Inc.	M80-5401242
11	2	J4 J5	M80-5400642			Datamate J-Tek			CONN HDR 2MM R/A W/SCREW 6POS		Harwin Inc.	M80-5400642
12	6	JP1 JP2 JP3 JP4 JP5 JP6	LS=0.100"						22 AWG Jumper, Pins 1-2			MISC_JMPR-TH-3PIN-JUMP1-2
13	3	L1 L2 L3	MPZ2012S221A						FERRITE CHIP 220 OHM 3A 0805		TDK Corporation	MPZ2012S221A
14	3	L4 L5 L6	BNX024H01L						EMI/RFI Suppressors & Ferrites 100M Ohm 15A SMD	50V	Murata	BNX024H01L
15	3	Q1 Q3 Q4	IRFR7440TRPBF						MOSFET N CH 40V 90A DPAK	40V	Infineon Technologies	TMP-2164
16	6	R1 R5 R27 R35 R49 R57	TBD						TO BE DETERMINED, HEIGHT 0.5mm			TBD_R0603
17	9	R2 R3 R6 R28 R31 R32 R50 R53 R54	0.0	Jumper					RES 0.0 OHM 1/10W 0603 SMD		Vishay/Dale	CRCW06030000Z0EA
18	1	R4	22.0K	5%						75V	Vishay	CRCW060322K0JNEA
19	24	R11 R12 R13 R14 R15 R16 R19 R20 R34 R36 R37 R38 R39	100k	5%						75V	Vishay Dale	CRCW0603100KJNEA
20	2	R21 R65	0.04	±1%					RES .04 OHM 1W 1% 2512 SMD		Vishay/Dale	WSL2512R0400FEA
21	3	R22 R44 R66	10	1%						75V	Vishay	CRCW060310R0FKEA
22	3	R23 R45 R68	453.0K	1%						75V	Vishay	CRCW0603453KFKEA
23	3	R24 R46 R67	22.1K	1%						75V	Vishay	CRCW060322K1FKEA
24	3	R25 R47 R69	33	5%						75V	Vishay	CRCW060333R0JNEA
25	3	R26 R48 R70	42.2K	1%						75V	Vishay	CRCW060342K2FKEA
26	1	R43	0.02	±1%					RES .02 OHM 2W 1% 2512 SMD		Vishay Dale	WSL2512R0200FEA18
27	12	SB3 SB7 SB9 SB12 SB16 SB19 SB21 SB23 SB27 SB32 SB34 SB35	0603						MISC 2 PIN JUMPER SOLDER BRIDGE 0603			MISC_SOLDERBRIDGE_SM0603
28	2	TS1 TS2	824011						TVS DIODE 5VWM 8.5VC SOT23		Würth Electronics Inc	824011
29	1	U1	LTC6930IMS8-7.37#PBF						IC OSC SILICON 7.3728MHZ 8-MSOP		Linear Technology	LTC6930IMS8-7.37#PBF
30	3	U4 U9 U14	SN74LVC1G04DBVR						IC SINGLE INVERTER-GATE SOT-23-5		Texas Instruments	SN74LVC1G04DBVR
31	3	U5 U11 U16	LTC4380IMS-3#PBF						IC LOW CUR SURGE STOPPER 10MSOP		Linear Technology	LTC4380IMS-3#PBF
32	3	U6 U10 U15	LTC2946CMS#PBF						IC ENERGY MONITOR I2C 16MSOP		Linear Technology	LTC2946CMS#PBF
33	2	U8 U13	MAX3226EEAE+						IC TXRX RS232 250KBPS SD 16-SSOP		Maxim Integrated	MAX3226EEAE+

Slot 3 WetLab Satlantic Optode

Item Number	Quantity	Part Reference	Value	Tolerance	Rating	Type	Manufacturer Number	Distributor Number	Description	Rated Voltage	Manufacturer	PART_NUMBER
1	14	C1 C2 C5 C6 C13 C15 C17 C18 C25 C27 C29 C30 C37 C39	0.10uF	10%					CAP, CER, 0.10uF, 16V, 10%, X7R, 0603	16V	Kemet	C0603C104K4RAC
2	5	C3 C4 C16 C28 C40	1.0uF	10%					CAP 1.0UF 16V CERAMIC X7R 0805	16V	Kemet	C0805C105K4RAC
3	15	C7 C8 C9 C10 C11 C19 C20 C21 C22 C23 C31 C32 C33 C34 C35	0.22uF	10%						25V	Kemet	C0603C224K3RAC
4	3	C12 C24 C36	470uF	20%		Hybrid Polymer			CAP POLY HYB 470UF 20% 16V SMD	16V	United Chemi-Con	HHXB160ARA471MJA0G
5	3	C14 C26 C38	47,000.0pF	10%						50V	Kemet	C0603C473K5RAC
6	3	D1 D4 D5	SMBJ12A-13-F			SMBJ12A			TVS DIODE 12VWM 19.9VC SMB		Diodes Incorporated	SMBJ12A-13-F
7	3	D2 D3 D6	SMBJ6.5A-13-F			SMBJ6.5A		SMBJ6.5CA-FDICT-ND	TVS DIODE 6.5VWM 11.2VC SMB		Diodes Incorporated	SMBJ6.5A-13-F
8	1	J1	5650948-5						CONN DIN PLUG 48POS RT ANG PCB		TE Connectivity AMP Connectors	5650948-5
9	1	J2	M80-5401042			Datamate J-Tek	M80-5401042		CONN HDR 2MM R/A W/SCREW 10POS		Harwin Inc.	M80-5401042
10	1	J3	M80-5401242			Datamate J-Tek	M80-5401242	952-1931-ND	2X6POS MALE H BOARD MOUNT		Harwin Inc.	M80-5401242
11	2	J4 J5	M80-5400642			Datamate J-Tek			CONN HDR 2MM R/A W/SCREW 6POS		Harwin Inc.	M80-5400642
12	6	JP1 JP2 JP3 JP4 JP5 JP6	LS=0.100"						22 AWG Jumper, Pins 1-2			MISC_JMPR-TH-3PIN-JUMP1-2
13	3	L1 L2 L3	MPZ2012S221A						FERRITE CHIP 220 OHM 3A 0805		TDK Corporation	MPZ2012S221A
14	3	L4 L5 L6	BNX024H01L						EMI/RFI Suppressors & Ferrites 100M Ohm 15A SMD	50V	Murata	BNX024H01L
15	3	Q1 Q3 Q4	IRFR7440TRPBF						MOSFET N CH 40V 90A DPAK	40V	Infineon Technologies	TMP-2164
16	13	R1 R5 R7 R10 R18 R27 R29 R30 R35 R49 R51 R52 R57	TBD						TO BE DETERMINED, HEIGHT 0.5mm			TBD_R0603
17	5	R2 R3 R6 R28 R50	0.0	Jumper					RES 0.0 OHM 1/10W 0603 SMD		Vishay/Dale	CRCW06030000Z0EA
18	24	R11 R12 R13 R14 R15 R16 R19 R20 R34 R36 R37 R38 R39	100k	5%						75V	Vishay Dale	CRCW0603100KJNEA
19	3	R21 R43 R65	0.04	±1%					RES .04 OHM 1W 1% 2512 SMD		Vishay/Dale	WSL2512R0400FEA
20	3	R22 R44 R66	10	1%						75V	Vishay	CRCW060310R0FKEA

21	3	R23 R45 R68	453.0K	1%						75V	Vishay	CRCW0603453KFKEA
22	3	R24 R46 R67	22.1K	1%						75V	Vishay	CRCW060322K1FKEA
23	3	R25 R47 R69	33	5%						75V	Vishay	CRCW060333R0JNEA
24	3	R26 R48 R70	42.2K	1%						75V	Vishay	CRCW060342K2FKEA
25	12	SB3 SB7 SB9 SB12 SB16 SB19 SB21 SB23 SB27 SB32 SB34										
		SB35	0603						MISC 2 PIN JUMPER SOLDER BRIDGE 0603			MISC_SOLDERBRIDGE_SM0603
26	2	TS1 TS2	824011						TVS DIODE 5VWM 8.5VC SOT23		Würth Electronics Inc	824011
27	1	U1	LTC6930IMS8-7.37#PBF						IC OSC SILICON 7.3728MHZ 8-MSOP		Linear Technology	LTC6930IMS8-7.37#PBF
28	3	U2 U7 U12	XR20M1280IL32-F						UART Interface IC 1Ch 12C/SPI UART w/ Lvl Shfters & 8 GPIOs		Exar	XR20M1280IL32-F
29	1	U3	MAX3244EEAI+						IC TXRX RS-232 W/SHTDWN 28-SSOP		Maxim Integrated	MAX3244EEAI+
30	3	U4 U9 U14	SN74LVC1G04DBVR						IC SINGLE INVERTER-GATE SOT-23-5		Texas Instruments	SN74LVC1G04DBVR
31	3	U5 U11 U16	LTC4380IMS-3#PBF						IC LOW CUR SURGE STOPPER 10MSOP		Linear Technology	LTC4380IMS-3#PBF
32	3	U6 U10 U15	LTC2946CMS#PBF						IC ENERGY MONITOR I2C 16MSOP		Linear Technology	LTC2946CMS#PBF
33	2	U8 U13	MAX3226EEAE+						IC TXRX RS232 250KBPS SD 16-SSOP		Maxim Integrated	MAX3226EEAE+