

Bill of Material

CBS-2121 Main Board Top Level

Source Data From:

CBS-2121 MainBoard.PrjPCB

Project:

CBS-2121 MainBoard.PrjPCB

Variant:

Standard_Machine

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Number	LibRef	Comment	Footprint	Value	Designator	Description	Quantity	Supplier 1	Supplier Part Number 1	Manufacturer 1	Manufacturer Part Number 1
1	CMP-08452-A.2	CAP 100nF 50V 0805(2012)	C0805	100nF	C1, C3, C7, C9, C10, C19, C25, C26, C27, C29, C31	CAP 100nF 50V ±20% 0805 (2012 Metric) Thickness 1mm SMD	11	Digi-Key	478-1395-1-ND	AVX	0805C104KAT2A
2	CMP-08368-A.2	CAP 100pF 50V 0805(2012)	C0805	100pF	C2, C16, C17	CAP 100pF 50V ±20% 0805 (2012 Metric) Thickness 1mm SMD	3	Digi-Key	0805C101KAT2A-ND	AVX	0805C101KAT2A
3	CMP-08248-A.2	CAP 10uF 6.3V 0805(2012)	C0805	10uF	C6, C8, C24	CAP 10uF 6.3V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	3	Digi-Key	478-5322-1-ND	AVX	0805C106KAT2A
4	CMP-09201-A.2	CAP 20pF 50V 0805(2012)	C0805	20pF	C11, C12	CAP 20pF 50V ±10% 0805 (2012 Metric) Thickness 1mm SMD	2	Digi-Key	399-8033-1-ND	KEMET	C0805C200J5GACTU
5	CMP-08465-A.2	CAP 1uF 50V 0805(2012)	C0805	1uF	C15, C18	CAP 1uF 50V ±20% 0805 (2012 Metric) Thickness 1.45mm SMD	2	Digi-Key	478-7956-1-ND	AVX	0805C105KAT2A
6	CMP-09374-A.2	CAP 10nF 275V AC 5x18mm	RAD-0.4-0.6	10nF	C20, C21, C28, C30	CAP Polypropylene EMI 10nF 275V AC ±20% 5x18mm High 11mm THT	4	Digi-Key	399-5986-ND	KEMET	R46KF210000N0K
7	CMP-08750-A.2	CAP EL 47uF 16V	CE1D2	47u	C22, C23	CAP EL 47uF 16V ±20% D=6.3mm F=2.5mm H=5mm	2	Digi-Key	P11196-ND	Panasonic	ELU-FC1C470
8	CMP-00006-A.2	70543-0001	70543-0001		CN1	Shielded Header, 2-Pin, Single Row, .120" Pocket Vertical, 2.54mm (1,00") Pitch	1	Digi-Key	WM4800-ND	Molex	0705430001
9	CMP-00030-A.2	NS39-W2P	FLY2V		CN3, CN4	NS39 Series, 2-Pin, PCB Connector, 3.96mm Pitch	2	Digi-Key	455-1639-ND	JST Sales America Inc	B2P-VH(LF)(SN)
10	CMP-09369-A.2	FS1536	QFM6.3		CN5, CN7	FS1536 Quick-Fit Male Tab PCB, Vertical Mount, 6.3x0.8mm THT	2	Digi-Key	1287K-ND	Keystone Electronics	1287
11	CMP-00034-A.2	NS39-W8P	NS39-W8P		CN6	NS39 Series, 8-Pin, PCB Connector, 3.96mm Pitch	1	Digi-Key	455-1645-ND	JST Sales America Inc	B8P-VH(LF)(SN)
12	CMP-00025-A.2	NS25-W4P	WF-04S		CN8	NS25 Series, 4-Pin, PCB Mount, 2.54 mm Pitch, Straight	1	Digi-Key	WM4113-ND	Molex	0022272041
13	CMP-10276-A.2	Header 1x4	HDR1X4		CN9	Header, 1x4-Pin, 2.54 mm Pitch, Straight	1	Digi-Key	609-3404-ND	FCI	68001-404HLF
14	CMP-09373-A.2	0522070585	52207-0585		CN10	0522070585 FFC/FPC Connector 1.0 mm Pitch, SMT, Right Angle, ZIF, Top Contact, 5 Circuits	1	Digi-Key	WM7969CT-ND	Molex	0522070585
15	CMP-10477-A.1	DS1020-02ST1D	DS1020-02ST1D		CN11	DS1020-02ST1D FFC/FPC Connector 2-Pin Vertical mount Pitch 2.54mm THT 10.5x4.5mm	1	TME	DS1020-02ST1D	CONNFLY	DS1020-02ST1D
16	CMP-10472-A.1	MST 2A 250V	MTS		F1	MST Series Slow Blow Fuse, 2A, 250V	1	Farnell	1566103	MULTICOMP	MST 2A 250V
17	CMP-10469-A.2	G4A-1A-E 5VDC	G4A-1A-E		K1	G4A-1A-E 5VDC, Power Relay SPST, Load 20 A at 250 VAC, Coil voltage 5VDC	1	Digi-Key	Z3103-ND	OMRON ELECTRONIC COMPONENTS	G4A-1A-E DC5
18	CMP-08774-A.3	BLM21AG102SN1D	L0805		L1, L3, L4, L5	BLM21A Series Chip Ferrite Bead, 1000 Ohm at 100 MHz, 0.28 Ohm at DC, 500 mA	4	Digi-Key	490-1041-1-ND	Murata	BLM21AG102SN1D
19	CMP-09371-A.2	TWM13002	TWM13002		LED1	TWM13002 Custom display for CBS2121	1				
20	CMP-00156-A.3	LED R	LED0805		LED1, LED2	RED LED	2	Digi-Key	754-1128-1-ND	Kingbright Company LLC	APT2012EC
21	CMP-09212-A.3	1051.00027.00_0-A.4	PCB_rev		PCB1	Blank PCB	1				
22	CMP-10464-A.2	RAC02-055C	RAC02		PS1	2Watt AC-DC Switching Power Supply, Out: 5V, 400mA	1	Digi-Key	945-1401-5-ND	RECOM Power, Inc.	RAC02-055C
23	CMP-10281-A.3	IRLML6302	SD-Q3_Z3.3		Q1	HEXFET Power MOSFET	1	Digi-Key	IRLML6302TRPBFCT-ND	International Rectifier	IRLML6302TRPBF
24	CMP-03273-A.3	1k 5% 0805(2012)	R0805	1k	R1, R19	1k 0.125W 5% 0805 (2012 Metric) SMD	2	Digi-Key	311-1.0KARCT-ND	Yageo	RC0805JR-071KL
25	CMP-03269-A.3	4k7 5% 0805(2012)	R0805	4k7	R2	4k7 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-4.7KARCT-ND	Yageo	RC0805JR-074K7L
26	CMP-03785-A.3	4k7 1% 0805(2012)	R0805	4k7	R3	4k7 0.125W 1% 0805 (2012 Metric) SMD	1	Digi-Key	311-4.70KCRCT-ND	Yageo	RC0805FR-074K7L
27	CMP-03313-A.3	47k 5% 0805(2012)	R0805	47k	R4, R23, R26, R27, R33, R34, R44	47k 0.125W 5% 0805 (2012 Metric) SMD	7	Digi-Key	311-47KARCT-ND	Yageo	RC0805JR-0747KL
28	CMP-03297-A.3	10k 5% 0805(2012)	R0805	10k	R5, R20	10k 0.125W 5% 0805 (2012 Metric) SMD	2	Digi-Key	311-10KARCT-ND	Yageo	RC0805JR-0710KL
29	CMP-03263-A.3	390R 5% 0805(2012)	R0805	390R	R6	390R 0.125W 5% 0805 (2012 Metric) SMD	1	Digi-Key	311-390ARCT-ND	Yageo	RC0805JR-07390RL
30	CMP-03935-A.3	100k 1% 0805(2012)	R0805	100k	R9, R16	100k 0.125W 1% 0805 (2012 Metric) SMD	2	Digi-Key	311-100KCRCT-ND	Yageo	RC0805FR-07100KL
31	CMP-03982-A.3	270k 1% 0805(2012)	R0805	270k	R10, R12, R14, R15	270k 0.125W 1% 0805 (2012 Metric) SMD	4	Digi-Key	311-270KCRCT-ND	Yageo	RC0805FR-07270KL
32	CMP-04011-A.3	470k 1% 0805(2012)	R0805	470k	R11, R13	470k 0.125W 1% 0805 (2012 Metric) SMD	2	Digi-Key	311-470KCRCT-ND	Yageo	RC0805FR-07470KL
33	CMP-08893-A.2	4 x 10k 5% 4x0603	4D03	10k	R17, R18	4 x 10k 0.0625W 5% 4x0603 SMD	2	Digi-Key	TC164J-10KCT-ND	Yageo	TC164-JR-0710KL
34	CMP-03265-A.3	470R 5% 0805(2012)	R0805	470R	R21, R35, R38, R41	470R 0.125W 5% 0805 (2012 Metric) SMD	4	Digi-Key	311-470ARCT-ND	Yageo	RC0805JR-07470RL
35	CMP-09281-A.2	390R 5% 3.5x10mm	AXIAL-0.6	390R	R22, R36, R39, R42	390R 1W 5% 3.5x10mm THT	4	Digi-Key	390WCT-ND	Yageo	FMP100JR-52-390R
36	CMP-08845-A.2	4 x 100R 5% 4x0603	4D03	100R	R24, R28	4 x 100R 0.0625W 5% 4x0603 SMD	2	Digi-Key	TC164J-100CT-ND	Yageo	TC164-JR-07100RL
37	CMP-09257-A.2	39R 5% 3.5x10mm	AXIAL-0.6	39R	R25, R37, R40, R43	39R 1W 5% 3.5x10mm THT	4	Digi-Key	39W-1-ND	Yageo	RSF100JB-73-39R
38	CMP-00076-A.2	MOC3063M	DIP6		T3, T5, T7, T9	6-Pin DIP Zero-Cross Phototriac Driver Optocoupler	4	Digi-Key	MOC3063M-LO-ND	National Semiconductor	MOC3063M
39	CMP-10462-A.3	BT136-600E	TO-220		T4, T6, T8, T10	BT136-600E General purpose triac 600V 4A	4	Digi-Key	568-5670-5-ND	IXYS Semiconductors	BT136-600E-127
40	CMP-0304-00015-1	STM32F051R8T6	LQFP64_N		U1	ARM Cortex-M0 32-bit RISC core (48 MHz max), 64kB Flash, 8 kB Internal RAM, 55 High Current I/Os, -40 to +85°C, 64-Pin LQFP, Tray	1	Digi-Key	497-12891-ND	ST-Microelectronics	STM32F051R8T6
41	CMP-00090-A.3	ULN2003D	SO-G16_C5.2		U3	80mA Low-Dropout Linear Regulator, 3-pin TO-252	1	Digi-Key	497-2345-1-ND	ST-Microelectronics	ULN2003D1013TR
42	CMP-00645-A.2	LM1117DT-3.3	TD03B_N		U4	80mA Low-Dropout Linear Regulator, 3-pin TO-252	1	Newark	74C3917	Loading...	Loading...
43	CMP-00068-A.3	M95256-WMN6	SO-G8_E2.9		U5	256 Kbit serial SPI bus EPROM with high-speed clock	1	Digi-Key	497-6357-5-ND	ST-Microelectronics	M95256-WMN6P
44	CMP-10471-A.1	B72214S023K101	S14K230		V1	Metal oxide varistor; 230VAC; Energy absorption 80J; Body 4.7 x 15.5 mm; THT	1	Digi-Key	495-6496-ND	EPCOS	S14K230
45	CMP-00137-A.2	HC49_4HSMX 8.00M	XTAL_SMD		X2	Crystal Oscillator 8.00MHz	1	Digi-Key	XC1271CT-ND	ECS Inc	ECS-80-18-5PX-TR
							Total Quantity	101			

Approved	Notes