

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1
1	C15	CAP TANT 10uF 20V 10% 2.1 Ohm Size B	AVX	TAJB106K020RNJ
1	C17	CAP CER 10uF 10V X7R 20% 1206	TDK	C3216X7R1A106M
1	D1	DIODE STD REC 1A 600V SMA	ON Semiconductor	MRA4005T3G
1	J10	CONN POWER JACK MALE 2.5MM CLSD	CUI Inc	PJ-002B
1	J11	CON HDR-2.54 Male 1x6 TH R/A	FCI	68016-106HLF
1	J14	CONN D-SUB RCPT R/A 9POS 15GOLD	TE Connectivity	1734354-2
1	J15	CONN RECEPT MINI SMD R/A 5POS	Hirose Electric Co Ltd	UX60-MB-5ST
1	J16	CONN HDR Male .100 1x3POS VERT	FCI	68000-103HLF
1	J17	Mini Edge Card Socket 1mm Pitch Vertical	Samtec	MEC1-160-02-L-D-A
1	J8	CONN HDR Male .100 2x8 Pos VERT	FCI	68602-116HLF
1	J9	CONN HDR Male .100 2x2 Pos VERT	FCI	68602-204HLF
1	L1	FERRITE 300MA 500 mOhm 1806 SMD	Laird	LI1806C151R-10
1	LCD1	LCD COG CHAR 2X16 TRANSFL	Multisight Display CO. LT	NHD-C0216CIZ-FSW-FB
1	LD3	LED SMARTLED RED 630nm 0603	OSRAM Opto Semicondu	LS L29K-G1J2-1-0-2-R18
1	LD6	LED 2X1.2mm RD/GN WTR CLR SMD	Kingbright Corp	APHBM2012SURKCGKC
1	Q1	MOSFET P 12V 850mA 290mW SC-70-3	Vishay/Siliconix	SI1307EDL-T1-GE3
1	R5	RES 100 Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ101V
1	U10	Four 25 X 1 Header 1.27mm pitch (100 pin socket)	SAMTEC	MTMS-125-01-G-S-230
1	U11	IC VOLT-LEVEL TRANSLATOR US-8	Texas Instruments	TXS0102DCUR
1	U4	IC REG LDO 800MA 5V SOT-223	National Semiconductor	LM1117MPX-5.0/NOPB
1	U8	IC LINE DRV/R/CVR RS232 20-TSSOP	Texas Instruments	SN75C3223PWR
1	X1	CRYSTAL 10 MHz 18pF HC49-SMD-B	Abracon Corporation	ABLS-10.000MHZ-B4-T
1	X2	CRYSTAL 7.3728 MHz 18pF HC49-SMD-B	Abracon Corporation	ABLS-7.3728MHZ-B4-T
1	X3	RESONATOR 12MHz 0.1% SMD CSTCE-G	Murata	CSTCE12M0G15L99-R0
2	C25, C26	CAP CER 22pF 50V 5% C0G 0603	TDK	C1608C0G1H220J
2	C6, C7	CAP CER 15pF 50V 5% NP0 SMD 0603	Yageo	CC0603JRNPO9BN150
2	C62, C63	CAP CER 1uF 10V X7R 20% 0603	TDK	C1608X7R1A105M
2	LD1, LD2	LED SMARTLED GREEN 570nm 0603	OSRAM	LG L29K-G2J1-24-Z
2	LD4, LD5	LED 5mm RED 640nm 20mcd 2mA	Kingbright Corp	WP7113LSRD
2	R20, R42	RES 1M Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1004V
2	R27, R32	RES 0 Ohm 1/10W 0603 SMD	Panasonic - ECG	ERJ-3GEY0R00V
2	R28, R62	RES 10k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ103V
2	R38, R39	RES 2.2k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ222V



2	U6, U7	Photocoupler TRANS OUT 4-MINIPAK	Avago Technologies	HCPL-181-00CE
20	R25, R26, R29, R30, R35, R37, R45, R46, R47, R49, R50, R51, R52, R55, R56, R57, R59, R60, R63, R98	RES 1k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ102V
24	R3, R4, R11, R13, R15, R16, R18, R19, R21, R22, R65, R67, R68, R69, R71, R73, R74, R75, R77, R79, R80, R81, R83, R85	RES TKF 1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1001V
3	C13, C44, C45	CAP CER 10uF 10V 20% X7R SMD 1206	TDK	C3216X7R1A106M
4	J6, J12, J13, J19	CONN HDR Male .100 1x2POS VERT	FCI	77311-118-02LF
4	SW1, SW2, SW3, SW4	SWITCH TACT 6MM 160GF H=4.3MM	Omron Electronics Inc-E	B3S-1000P
46	C1, C2, C3, C4, C5, C8, C9, C10, C11, C12, C14, C16, C18, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C61, C64, C65, C66, C67	CAP CER 0.1uF 16V 10% X7R 0603	TDK	C1608X7R1C104K
6	J2, J5, J20, J22, J24, J26	CONN TERM BLK PLUG 6A 3.5MM 3POS (Mates with 8724 HDR-24pin)	Keystone Electronics	8723
6	R33, R36, R44, R48, R53, R58	RES 4.7k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ472V
7	J1, J3, J4, J7, J21, J23, J25	CONN HDR Male .100 2x3POS VERT	FCI	67996-206HLF
9	R6, R7, R8, R9, R10, R12, R14, R17, R54	RES 10 Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ100V
1	U2	IC LDO REG 500MA 3.3V SOT-223-3	Microchip	MCP1825S-3302E/DB
1	U3	IC REG LDO 150mA 3.3V SOT-223-3	Microchip	MCP1754ST-3302E/DB
1	U5	IC ADC 12 Ch Delta Sigma MCP3913 QFN-40	Microchip	MCP3913
1	U9	IC USB TO UART SSOP-20	Microchip	MCP2200-I/SS
4	U12, U13, U14, U15	IC SRAM SPI 1024K 2.5V TSSOP-8	Microchip	23LC1024-I/ST
5	PAD1	MECH HW RUBBER PAD Bump on Hemisphere 0.44" x 0.20" Black	3M	SJ-5003 (BLACK)

1	Included in box at time of packaging	USB A Male to Mini USB B 5 pin Cable - 3ft	http://www.katarno.com	10UM-02103BK

0	C19, C20, C21, C22, C23, C24, C57, C58, C59, C60	CAP CER 0.1uF 16V 10% X7R 0603	TDK	C1608X7R1C104K
0	J27, J29	CONN HDR Male .100 2x3POS VERT	Tyco Electronics	HDR M 2x3 Vertical
0	J28, J30	CONN TERM BLK PLUG 6A 3.5MM 3POS (Mates with 8724 HDR-24pin)	Keystone Electronics	8723
0	R1, R2, R23, R24, R64, R66, R70, R72, R76, R78, R82, R84, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97	RES TKF 1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1001V
0	R31, R34	RES 10 Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ100V
0	R40, R41	RES 1k Ohm 1/10W 5% 0603 SMD	Panasonic - ECG	ERJ-3GEYJ102V
0	R43	RES 1M Ohm 1/10W 1% 0603 SMD	Panasonic - ECG	ERJ-3EKF1004V
0	U1	PIC24FJxxxGA110	Microchip	PIC24FJ256GA110

Approved	Notes