

Qty	Part Reference	Description	Manufacturer Name	Manufacturer Part Number	Comments
	SCH	SCH-7049-B0 EMC6D103S / EMC2300 EVB			
1	PCB	EVB-7049-B00 Evaluation Bd	SMSC	AZ7049-B00	
6	C1 C2 C3 C6 C8 C18	Capacitor, 0.1uF, 16V, 10%, X7R, 0603	Panasonic	ECJ-1VB1C104K	
4	C4 C5 C12 C14	Capacitor, 1.0uF, 16VDC, 10%, X5R, 0603	Panasonic	ECJ-1VB1C105K	
5	C7 C10 C15 C16 C17	Capacitor, 10uF, 25VDC, 10%, Tantalum, E	Nichicon	F971E106MNC	
3	C9 C11 C13	Capacitor Ceramic 2200PF 50V 20% X7R 0603	Murata Erie	GRM188R71H222MA01D	
3	D1 D2 D3	Diode Schottky 20V 0.5A SOD-123	Fairchild	MBR0520L	
2	D4 D5	Diode Schottky 40V 1A SMB	Internatnl Rectifier	MBRS140TR	
3	F1 F2 F3 F4	Polyswitch 0.50A Hold 1.0A Trip SMD	Raychem	SMD050-2	Do not place F2
1	FAN1	Fan 5V 40mm 160mA Sunon 7.3CFM w/Tach	Sunon	KDE0504PFB1 MS.M	
1	FB1	Ferrite Bead, 120 Ohm, 0.5A, 0.1DCR, 0603	Panasonic	EXC-3BP121H	
4	HD1 HD2 HD3 HD4	Standoff Threaded 3/8" #6 Nylon	Keystone	1903B	
4	HD13 HD14 HD15 HD16	Nut Hex 6-32 Nylon	Building Fasteners	NY HN 632	
4	HD17 HD18 HD19 HD20	Spacer Nylon .250"Dia 1/4"	RICHCO	R905-04	
4	HD5 HD6 HD7 HD8	Screw Nylon Phillips #6-32 x 3/8"	RICHCO	NSP-6-6-01	
4	HD9 HD10 HD11 HD12	Screw Nylon Phillips #6-32 x 7/8"	RICHCO	NSP-6-14-01	
2	JP1 P11	Header, 1 x 6, 0.1 Inch, Vertical	Samtec	TSW-106-07-L-S	
3	JP2 JP5 JP6	Header, 2 x 2, 0.1 Inch, Vertical	Samtec	TSW-102-07-L-D	
1	JP3	Header, 2 x 4, 0.1 Inch, Vertical	Samtec	TSW-104-07-L-D	
1	JP4	Header, 2 x 3, 0.1 inch, Vertical	Samtec	TSW-103-07-L-D	
1	JP7	Header, 2 x 5, 0.1 Inch, Vertical	Samtec	TSW-105-07-L-D	
1	LED1	LED Red/Green SMT	Lumex	SSL-LXA3025IGC-TR	
5	LED2 - LED6	LED SMT Green	Stanley Electric	BG1111C-TR	
1	P1	Plug, Right Angle, SMT, 4pos	Hirose	MQ172X-4PA	
1	P2	Conn Header 8 Pos 2MM RT Ang Gold	Molex	87333-0820	
1	P3	Connector USB Type Mini-AB	Molex	54819-0572	
2	P4 P7	Header, 1 x 3, 0.1 Inch, Latching, Vert	AMP	640456-3	
1	P5	Conn, Power Jack, 5.5mm x, 2.5A, RA	Switchcraft	RAPC722	
1	P6	Conn Term Block 2Pos 5MM PCB	Phoenix Contact	1729018	
1	P8	Header, 1 x 4, 0.1 Inch, Latching, Vert	AMP	640456-4	
2	P9 P10	Plug, Right Angle, SMT, 3pos	Hirose	MQ172-3PA	
1	Q1	MOSFET N-CH 30V 7.2A SOT-223 NDT451	Fairchild	NDT451ANCT	
2	Q2 Q5	MOSFET N-Channel 20V SOT-23	Fairchild	NDS335N	
2	Q3 Q4	Transistor NPN SOT-23 MMBT3904	Fairchild	MMBT3904	
1	R1	Resistor 47 Ohm 1% 1/16W 0603	Yageo America	9C06031A47R0FKHFT	
5	R10 R11 R16 R17 R18	Resistor, 301, 1%, 1/16W, 0603	Yageo America	9C06031A3010FKHFT	
7	R12 R21 R31 - R35	Resistor 100K 1% 1/10W 0603	Yageo America	RC0603JR-07100KL	
1	R13	Resistor, 20K, 1%, 1/16W, 0603	Panasonic	ERJ-3EKF2002V	

1	R13	Resistor, 20K, 1%, 1/16W, 0603	Yageo America	9C06031A2002FKHFT
1	R14	Resistor, 12.0K, 1%, 1/16W, 0603	Yageo America	9C06031A1202FKHFT
1	R15	Resistor 820 OHM 1/10W 1% 0603 SMD	Rohm	MCR03EZPFX8200
9	R2 R5 - R7 R19 R23 R24 R26 R29	Resistor, 10.0K, 1%, 1/16W, 0603	Yageo America	MCR03EZPFX1002
1	R20	Resistor 470 ohm 1% 1/10W 0603	Yageo America	9C06031A4700JLHFT
1	R22	Resistor 2.00K OHM 1/10W 1% 0603 SMD	Yageo America	9C06031A2001FKHFT
3	R25 R30 R36	Resistor, Zero, 0.1W, 0603	Yageo America	9C06031A0R00JLHFT
1	R27	Resistor, 27ohm, 5%, 1W, Metal Film Axial	BC Components	5073NW27R00J12AFXBC
1	R28	Resistor, 43ohm, 5%, 1W, Metal Film Axial	BC Components	5073NW43R00J12AFXBC
4	R3 R4 R8 R9	Resistor, 1.00K, 1%, 1/16W, 0603	Yageo America	9C06031A1001FKHFT
2	RV1 RV2	Trimpot 2K Ohm 6mm SQ SMD	Bourns	3361P-202G
8	TP1 - TP8	Test Point	Keystone	5015
1	U1	IC EMC2300 Fan Control SSOP16	SMSC	EMC2300
1	U2	IC Fan Control and Voltage Monitor EMC6D103S	SMSC	EMC6D103S
1	U3	Inverter Single LVC SOT23-5 SN74LVC1G04	Texas Instruments	SN74LVC1G04DBVR
1	U4	IC Dual Op Amp 8-TSSOP LM358	Texas Instruments	LM358PWR
1	U5	IC Converter Switch Cap MAX660	Maxim	MAX660CSA
1	U6	IC USB MCU 8051 w/I2C and SPI C8051F320	Silicon Labs	C8051F320R

Do not place U2