

Item	Quantity	Reference	Part	Manufacturer	Manufacturer Part Number	PCB Footprint	Description
1	2	C5,C17	10uF	Murata	GRM188R61C106MA73D	603	CAP CER 10UF 16V XSR 0603
	6	C1,C2,C3,C23,C24,C34	10uF	Murata	GRM21BR60106ME19L	805	10uF 6.3V Ceramic Capacitor XSR 0805
	1	C13	10uF	Murata	GRM155R60G106ME44D	402	10uF 4V Ceramic Capacitor XSR 0402
2	1	C4	0.22uF	Murata	GRM152R61A224KE19D	402	CAP CER 0.22UF 10V XSR 0402
3	2	C6,C8	0.1uF	Murata	GRM155R61A104KA01D	402	CAP CER 0.1UF 10V XSR 0402
	10	C26,C27,C28,C29,C30,C31,C32,C33,C35,C36	01uF	Murata	GRM033R61A104KE15D	201	0.10uF 10V Ceramic Capacitor XSR 0201
4	1	C7	22uF	Murata	GRM188R60J226MEA0D	603	CAP CER 22UF 6.3V XSR 0603
	1	C25	22uF	Murata	GRM188R60J226MEA0D	805	22uF 6.3V Ceramic Capacitor XSR 0805
5	6	C9,C10,C11,C12,C21,C22	0.01uF	Murata	GRM155R71C103KA01D	402	CAP CER 10000PF 16V X7R 0402
6	4	C18,C19,C20	1uF	Murata	GRM155R601105ME19D	402	CAP CER 1UF 6.3V XSR 0402
	1	C14	1uF	Murata	GRM188R61C105KA93D	603	1uF 16V Ceramic Capacitor XSR 0603
7	2	C15,C16	220pF	Murata	GRM155S51H221JA01D	402	CAP CER 220PF 50V NPO 0402
8	5	D1,D4,D5,D6,D7	SCHOTTKY	NPX	PMEG3050EP.115	SOD-128	DIODE SCHOTTKY 30V SA SOD128
9	1	D2	LED Green 0805	Lumex	SML-LX0805GC-TR	805	LED GREEN CLEAR 0805 SMD
10	1	D3	B340A-13-F	Diodes Inc	B340A-13-F	SMA	DIODE SCHOTTKY 40V 3A SMA
11	2	F81,F83	Z1 @ 100MHZ	Taiyo Yuden	F8M12125HM210NT	805	FERRITE BEAD 21 OHM 0805 1LN
12	2	F82,F84	Z20 @ 100MHZ	Murata	BLM18EG221SN1D	603	FERRITE BEAD 220 OHM 0603 1LN
13	7	JMP1,JMP2,JMP3,JMP4,JMP5,JMP6,JMP7	4 Pin-T Berg Jumper	Samtec	HTSW-150-08-G-S	berg2x3tee	CONN HEADER 50POS .100" T/H GOLD
14	4	J1,J9,J14,J18	CON02	FCI	68001-402HLF	HDR_THVT_1X2_100_M	BERGSTIK II .100" SR STRAIGHT
15	1	J2	TypeC_Receptacle_DualSMT_TOP	Foxconn	UT12113-11601-7H	USB_TYPEC_UT1211	USB Type C Surface Mount Connector
16	1	J3	DP_SINK_SIDE_CONNECTOR	Molex Inc	472720001	con_DP_SD-47272-001	DisplayPort Receptacle Connector 20 Position Surface Mount, Right Angle, Horizontal
17	1	J4	USB3_TYPEB_CONNECTOR	Amphenol Commercial Products	G584211311WEU	usb3_typeb_ak4aa009	USB - B USB 3.1, Superspeed+ Receptacle Connector 9 Position Through Hole, Right Angle
18	0	J5,J6,J15,J16,J17	NC_HEADER 2	Omron Electronics Inc-EMC Div	XG8T-0231	berg1x2	JUMPER PLUG 2POS DOUBLE ROW
19	1	J7	Header 5x2 0.1" RA thru-hole	Amphenol FCI	68021-210HLF	HDR_THRT_68020	CONN HEADER 10POS .100 R/A 15AU
20	1	J8	Header 5x2 0.1" Shroud RA thru-hole	Amphenol FCI	67997-410HLF	HDR_THRT_2X5_100	CONN HEADER 10POS .100 STR TIN
21	1	J10	DC_PWR JACK	Cui Inc	PJ-2024H	pl-2024h	CONN PWR JACK 2.0x6.5MM HIGH CUR
22	0	J11,J12	NC_HDR10x2 M.1 Receptacle	Sullins Connector Solutions	PPPC102LFBN-RC	HDR_THVT_2x10_100_F	20 Position Header Connector 0.100" (2.54mm) Through Hole Gold
23	1	J13	JPD1135-509-7F	Foxconn	JPD1135-509-7F	Jack_THRT_JPD1135	DC POWER PLUG OR JACK
24	2	LP1,LP5	LP	Keystone Electronics	S011	THM Test Point	TEST POINT PC MULTI PURPOSE BLK
25	3	LP2,LP3,LP4		Keystone Electronics	S010	THM Test Point	TEST POINT PC MULTI PURPOSE RED
26	1	L1	1uH	Taiyo Yuden	NR3015T1R0N	IND_NR3015	FIXED IND 1.0UH 2.1A 36 MOHM SMD
27	2	Q1,Q2	MOS_P_4D_3S	Texas Instruments	CSD17309Q3	Q3_SON-8	MOSFET N-CH 30V 60A 8SON
28	0	R1,R4	NC_10K	Panasonic Electronic Components	ERI-2GEJ103X	402	RES SMD 10K OHM 5% 1/10W 0402
29	0	R2,R5,R75,R76,R77,R78	NC_1M	Panasonic Electronic Components	ERI-2GEJ105X	402	RES SMD 1M OHM 5% 1/10W 0402
30	0	R3,R6,R7,R10,R32,R33,R38,R79,R80,R82,R83,R84,R85,R86,R87,R88,R90,R91,R97,R98,R100,R101,R107,R108,R113,R135,R136,R141,R142,R146,R148,R155,R158,R159	NC_0	Panasonic Electronic Components	ERI-2GEOR00X	402	RES SMD 0.00HM JUMPER 1/10W 0402
31	0	R27,R28,R29,R30,R31,R37,R67,R68,R69,R70,R72,R73,R74,R89,R92,R93,R102,R104,R111,R112,R137,R138,R139,R140,R143,R144,R145,R147,R156,R160,R161,R163,R164,R165	0	Panasonic Electronic Components	ERI-2GEOR00X	402	RES SMD 0.00HM JUMPER 1/10W 0402
	19	R9,R91,R11,R12,R13,R14,R15,R16,R23,R34,R35,R94,R95,R96	0	Panasonic Electronic Components	ERI-1GNR00C	201	RES SMD 0.00HM JUMPER 1/20W 0201
	2	R17,R19	4.7K	Panasonic Electronic Components	ERI-2GEJ472X	402	RES SMD 4.7K OHM 5% 1/10W 0402
32	0	R18,R103,R151	NC_10K	Panasonic Electronic Components	ERI-2GEJ103X	402	RES SMD 10K OHM 5% 1/10W 0402
34	0	R20,R21	NC_100K	Panasonic Electronic Components	ERI-2GEJ104X	402	RES SMD 100K OHM 5% 1/10W 0402
35	0	R22,R162	DNL_0	Panasonic Electronic Components	ERI-1GNR00C	201	RES SMD 0.00HM JUMPER 1/20W 0201
36	0	R24	NC_1M	Panasonic Electronic Components	ERI-1GEF1004C	201	RES SMD 1M OHM 1% 1/20W 0201
37	1	R25	330	Panasonic Electronic Components	ERI-2GEJ331X	402	RES SMD 330 OHM 5% 1/10W 0402
38	1	R26	0.01, 1%, 0.25W	Panasonic Electronic Components	ERI-6BWF010V	805	RES SMD 0.01 OHM 1% 1/2W 0805
39	1	R36	15K	Panasonic Electronic Components	ERI-2RKF1502X	402	RES SMD 15K OHM 1% 1/10W 0402
40	9	R39,R40,R41,R42,R43,R44,R45,R64,R66	1K	Panasonic Electronic Components	ERI-2GEJ102X	402	RES SMD 1K OHM 5% 1/10W 0402
41	7	R46,R47,R48,R49,R50,R51,R65	100K	Panasonic Electronic Components	ERI-2GEJ104X	402	RES SMD 100K OHM 5% 1/10W 0402
42	0	R52	NC_100	Panasonic Electronic Components	ERI-2GEJ101X	402	RES SMD 100 OHM 5% 1/10W 0402
43	3	R53,R56,R154	10K	Panasonic Electronic Components	ERI-2GEJ103X	402	RES SMD 10K OHM 5% 1/10W 0402
44	8	R54,R55,R57,R58,R59,R60,R62,R63	3.3K	Panasonic Electronic Components	ERI-2GEJ332X	402	RES SMD 3.3K OHM 5% 1/10W 0402
45	0	R61	NC_3.3K	Panasonic Electronic Components	ERI-2GEJ332X	402	RES SMD 3.3K OHM 5% 1/10W 0402
46	1	R71	178K	Panasonic Electronic Components	ERI-2RKF1783X	102	RES SMD 178K OHM 1% 1/10W 0402
47	0	R81,R157	NC_OR	Vishay Dale	RCL1225000Z0EG	2512	RES SMD 0.0 OHM 2W 2512 WIDE
48	14	R14,R116,R117,R119,R120,R122,R123,R124,R126,R128,R129,R130,R132,R134	1K +/- 5%	Panasonic Electronic Components	ERI-2GEJ102X	402	RES SMD 1K OHM 5% 1/10W 0402
49	7	R115,R118,R121,R125,R127,R131,R133	20K +/- 5%	Panasonic Electronic Components	ERI-2GEJ203X	402	RES SMD 20K OHM 5% 1/10W 0402
50	0	R149,R150	DNL_20	Panasonic Electronic Components	ERI-2GEJ200X	402	RES SMD 20 OHM 5% 1/10W 0402
51	0	R152,R153	NC_A.7K	Panasonic Electronic Components	ERI-2GEJ472X	402	RES SMD 4.7K OHM 5% 1/10W 0402
52	1	SW1	4-POS 50-MIL SMT	C&K(ITT-CANNON)	TD404H05B1R	sw_smtv_dip_4pos_8	SWITCH DIP 4POS HALF PITCH 24V
53	1	SW2	8-POS 50-MIL SMT	C&K(ITT-CANNON)	TD408H05B1R	SW_SMTV_SPST_TDA08	SWITCH DIP 8POS HALF PITCH 24V
54	1	SW3	Pushbutton Switch	Omron Electronics Inc-EMC Div	B3SN-3012P	switch_b3sn	SWITCH TACTILE SPST-NO 0.05A 24V
55	1	SW4	SWITCH SPST-NO	C&K Components	KMT221G HF LFS	km2_switch	SWITCH TACTILE SPST-NO 0.05A 32V
56	8	TP1,TP2,TP3,TP5,TP6,TP7,TP8,TP9	TEST POINT	Samtec	HTSW-101-07-G-S	berg1x1	CONN HEADER 1POS .100" SGL GOLD

57	0	TP4	NC, TEST POINT	Keystone Electronics	1035	berg1x1	TERM TEST POINT SLOTTED .060"DIA
58	1	U1	TUS8546	Texas Instruments	TUS8546RNQR	SKT IRONWOOD_C14861_QFN-40	VESA USB Type-C Alt Mode redriving switch supporting data rates up to 10Gbps for down facing port (Host).
59	4	U2,U3,U4,U5	TPD4E05U06	Texas Instruments	TPD4E05U06DQAR	DQA	TVS DIODE 5.5VWM 14VC 10SON
60	1	U6	TP565982	Texas Instruments	TP565982ABZQZR	ZOZ_BGA_96	IC PWR MGMT CONV 3LDO 96BGA
61	1	U7	W25Q80	WINBOND	W25Q80DVSNG	SOIC_8_197x157_50	IC FLASH 8MBIT 104MHZ 8SOIC
62	1	U8	TP562082DSGT	Texas Instruments	TP562082DSGT	dsg	IC REG BUCK 3.3V 1.2A SYNC 8WSON
63	5	SHUNT		3M	969102-0000-DA		Place set as Table 1
64	1	Lb1	TUS8546EVM	Brady	TH1-14-423-10	PCB Label 0.650"H x 0.200"W	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll

Table 1	
Reference Designator	Configuration
JMP1	No Connect
JMP2	SHUNT on pin 2-4 (20K PD)
JMP3	SHUNT on pin 2-1 (1K PU)
JMP4	SHUNT on pin 2-4 (20K PD)
JMP5	SHUNT on pin 2-4 (20K PD)
JMP6	SHUNT on pin 2-4 (20K PD)

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