

Bill of Materials

TI DESIGNS

TIDA00728 Front Port Type-C USB Extender

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Digikey Part Number	PCB Footprint	Note
1	30	C1,C2,C3,C4,C6,C7,C8,C9,C10,C11,C12,C13,C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C25,C26,C34,C39,C47,C48,C49,C50	0.1uF	Capacitor	TDK	C0603X7S1A104M030BC	445-9018-2-ND	201	
2	10	C5,C14,C33,C35,C38,C40,C41,C42,C43,C44	1uF	Capacitor	TDK	C1005X5R1A105K050B8	445-4114-1-ND	402	
3	2	C27, C29	47nF	Capacitor	TDK	C1005X7R1C473K050BC	445-1264-1-ND	402	
4	2	C28, C30	4.7uF	Capacitor	TDK	C1005X5R0J475M050BC	445-7395-1-ND	402	
5	6	C31,C32,C36,C37,C45,C46	10uF	Capacitor	TDK	C1608X5R0J106M080AB	445-4112-1-ND	603	
6	1	P1		Header	Sullins Connector Solutions	SBH21-NBPN-D10-ST-BK	S9021-ND		2mm pitch Header
7	2	P2, P3		USB Type-C Receptacle	JAE	DX075024J12	670-2794-1-ND		Top Mnt TypeC
8	0	R1,R3,R5,R6,R7,R8,R17,R19,R21,R22,R23,R24	10K	Resistor	Panasonic Electronic Components	ERJ-2GEJ103X	P10KICT-ND	402	
9	8	R2,R4,R16,R18,R20,R32, R33,R35	10K	Resistor	Panasonic Electronic Components	ERJ-2GEJ103X	P10KICT-ND	402	
10	2	R9,R25	1.6k	Resistor	Panasonic Electronic Components	ERJ-2GEJ162X	P1.6KJCT-ND	402	
11	8	R10,R11,R12,R13,R26,R27, R28, R29	200k	Resistor	Panasonic Electronic Components	ERJ-2RKF2003X	P200KJCT-ND	402	
12	2	R14,R30	900K	Resistor	Panasonic Electronic Components	ERJ-2RKF9093X	P909KLDKR-ND	402	
13	2	R15,R31	4.7K	Resistor	Panasonic Electronic Components	ERJ-2GEJ472X	P4.7KJCT-ND	402	
14	2	R34,R36	29.4K	Resistor	Panasonic Electronic Components	ERJ-2RKF2942X	P29.4KJCT-ND	402	
15	2	U1,U4		USB3 Switch / Redriver	Texas Instruments	TUSB542RWQ	N/A		RWQ
16	2	U2,U5		CC Controller	Texas Instruments	TUSB321A	N/A		RWB
17	2	U3,U6		USB 2.0 Redriver	Texas Instruments	TUSB211RWB	296-42399-6-ND		RWB
18	2	U7,U8		Power Switch	Texas Instruments	TPS25910RSA	296-39385-1-ND		16-VQFN
19	2	U9,U10		1.8V LDO	Texas Instruments	LP5907MFX-1.8NOPB	296-41463-1-ND		SOT-23-5
20	2	U11,U12		3.3V LDO	Texas Instruments	LP5907SNX-3.3/NOPB	296-39066-1-ND		X2SON

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