

Quantity	PCB Specification									Test	
	PCB Size(mm)		Board Material	Layers	Thickness	Copper	Surface Finish	Solder Mask Color	Silkscreen Color	Test	Test
	X	Y			(mm)	(μ m)				Method	Qty
120	52	50	FR-4	2	1.6	35	ENIG (Electroless Nickel Immersion Gold)	Black	White	Flying Probe	100.00%

BOM

QTY (Required)		PCB/Project Name		Part Identification					Customer Information			Quantity
#	Part ID / Reference (Required)	Manufacturer	Part / Order Number (Required)	Description	Value (Required)	Package (Required)	THT (y/n)	Pins / Pads	(Digikey) Source/Link/ Datasheet/Note	Source / Target Price	Quantity per BOM (Required)	
1	C1, C2, C3	Any		CAP CER 0.1UF 10V 10% X7R 0603		0603	n	2	399-1095-1-ND		3	
2	C4	Any		CAP CER 10UF 10V 10% X7R 0805		0805	n	2	490-10517-1-ND		1	
3	D1	ON Semi	MBR0520LT3G	DIODE SCHOTTKY 20V 500MA SOD123		SOD123	n	2	MBR0520LT3GOSCT-ND		1	
4	IC1	TI	SN74AHCT245PWR	IC BUS TRANSCEIVER 8BIT 20TSSOP		TSSOP-20	n	20	296-1118-1-ND		1	
5	IC2	TI	SN74AHCT374PWR	IC D-TYPE POS TRG SNGL 20TSSOP		TSSOP-20	n	20	296-4746-1-ND		1	
6	IC3, IC4, IC5	TI	SN74AHCT1G08DBVR	IC GATE AND 1CH 2-INP SOT-23-5		SOT-23-5	n	5	296-1113-1-ND		3	
7	J1, J2	Samtec	HLE-114-02-F-DV-BE	2x14 SMT 0.1" Socket, ~3.8mm height			n	28			2	
8	J3	SOYA	10cm cable with JST-SM pin	10cm cable with JST-SM socket, RED-YELLOW-GREEN-BLACK color sequence, 20#			y	4			1	
9	J4	Samtec	HLE-110-02-F-DV-BE	2x10 SMT 0.1" Socket, ~3.8mm height			n	20			1	
10	R2	Any		RES SMD 47K OHM 1% 1/10W 0603		0603	n	2			1	
12	Antistatic Bag			Thickness:0.075MM; Outer size:80*120MM; Inner size:70*110MM;							1	
13	Label		*SmartLED Shield for Teensy	Sticker Label	50mm x 70mm						1	
14	JST-SM Pin Cable			10cm cable with JST-SM pin,RED-YELLOW-GREEN-BLACK color sequence,20#							1	
15	Pin Header	4UCON	18072	2x8 0.1" pins or 1x16 0.1" pins, 7.73mm long above, 7.73mm long below							1	
	DNP											
	C5											
	R1											