

Bill Of Materials For BeagleSatella Interface Cape Board

Qty	Value	Parts	Package	Digikey Part	Unit Price	Extended Price	Description	Additional Notes
2	N/A	J1, J5	N/A	S2021EC-14-ND	\$0.79	\$1.58	Connection Header Vertical 28 Pos 2.54mm Pitch	
1	N/A	J2	N/A	S1012EC-03-ND	\$0.09	\$0.09	Connection Header Vertical 3 Pos 2.54mm Pitch	
1	N/A	J3	N/A	1849-1002-ND	\$0.16	\$0.16	Connection Header Vertical 10 Pos 2.54mm Pitch	
1	N/A	J4	N/A	612-MEC2-40-01-L-TH1-WT-ND	\$0.02	\$0.02	Connector Card Edge 2mm Vertical	Must be cut to 2x18, provides 2 connectors
4	10k	R1-R4	Axial ¼ Watt	10KQBK-ND	\$0.10	\$0.40	Resistor 10K Ohm 1/4W 5% Axial	
9	0.1uF	C1-C9	Ceramic Radial	BC5137-ND	\$0.16	\$1.47	Capacitor Ceramic 0.1uF 50V X7R Radial	Priced at per-unit cost of 10-unit price break
2	10uF	C10-C11	Aluminum Radial	P15786CT-ND	\$0.24	\$0.48	Capacitor Aluminum 10uF 20% 16V Radial	
1	N/A	N/A	44-pin PLCC	123-A-CCS044-Z-T-ND	\$1.17	\$1.17	Connector Socket PLCC 44 Pos Tin	Socket for U1
1	N/A	U1	44-pin PLCC	ATF1504AS-10JU44-ND	\$3.20	\$3.20	Atmel ATF1504AS 10ns CPLD	
2	N/A	U2, U3	14-Pin DIP	296-4655-5-ND	\$0.40	\$0.80	SN74AHCT125N IC Buffer Non-Interting 5.5V	
3	N/A	U4-U6	20-Pin DIP	296-8503-5-ND	\$0.59	\$1.77	SN74LVC245AN IC TXRX Non-Inverting 3.6V	
2	N/A	P8, P9	N/A	S2012EC-23-ND	\$0.79	\$1.58	Connection Header Vertical 46 Pos 2.54mm Pitch	Beaglebone cape header, 2x23 pins

Total:

12.715

Alternative Components

Qty	Value	Parts	Package	Digikey Part	Unit Price	Extended Price	Description	Additional Notes
1	N/A	P8,P9	N/A	1528-1365-ND	\$4.95	\$4.95	Header Stack BeagleBone (2 piece)	Pair of Beaglebone cape headers (pass-through)