Number	Item	Description	Price/Pc [€]		Fotal Price
1	Limit Switches	4mm 300mA DC6-36V Inductive Proximity Sensor Detection Switch LJ12A3-4-Z/BX	2,1	6	12,6
2	male connectors	6-pole, 6 A 99-0617-00-06	5,86	3	17,58
3	male connectors	8-pole, 5 A 99-0645-00-08	9,26	1	9,26
4	Beagle Bone Black	Revision C	43	1	43
5	BeBoPr++	Beagle Bone extenstion for 3D printer or multiple axes stepper driver control + mating connectors	92	1	92
6	Stepper motors	3pcs Nema23, 425 oz.in bipolar single shaft	206,8	1	206,8
7	power supply	3pcs DM542A, Peak 4.2A, 128micsteps	(included i	n package se	e no. 6)
8	motor driver	1pcs power supply 350W-36vdc/9.7A	(included i	n package se	e no. 6)
9	emergency stop	Ui: 660V; Ith: 10A	4,62	1	4,62
10	Cable Chain	Igus E14.2.038.0	28,52	3	85,56
11	cable	0.75mm ² , limit switches + stepper motors	0,96	15	14,4
12	Pin strip with wires	Wire-to-board, 2.54mm, 3-pole, limit switches pins at BeBoPr+	0,49	6	2,94
13	Pin strip with wires	Wire-to-board, 2.54mm, 2-pole, emergency switch to BeBoPr+	1,98	1	1,98
14	J5-Bob	Connector extension to BeBePr++, source-enable option			
		R1 = 3k3 1/4W axial leaded resistor			
		Q2 = BC557B or other general purpose PNP transistor			
		5x Phoenix Contact PTSA 1.5/4-3,5-Z			
		2x SIL-8 sockets			
Power Ma	nagement Board				
15	CPLD breakout board	CoolRunner-II XC2C64A CPLD Dev Board	16,3	1	16,3
16	Oscillator	Standard Oscillator20MHz	1,48	1	1,48
17	Pin Connector	Number of pins: 1 x 20 Nominal current: 3 A	0,29	2	0,58
18	Socket Connector	Number of pins: 1 x 20 Nominal current: 3 A	1,49	2	2,98
19	BSS138	MOSFET N channel 50V	0,23	8	1,84
20	Resistor	$10~\text{k}\Omega$ SMD 0603 0.1 W 1 % 50 ppm MCT 0603	0,11	16	1,76
21	Resistor	$1~\text{k}\Omega$ SMD 0603 0.1 W 1 % 50 ppm MCT 0603	0,11	4	0,44

	22 Relay	G5Q-1-EU 12DC PCB Mount Power Relay 12Vdc 1 CO, SPDT	3,09	1	3,09
	23 Pin strip	Number of pins 6; Contact spacing: 2.54 mm	0,25	2	0,5
	24 AC/DC PSU	IRM-15-12 12 Vdc 1.25 A 15 W	6,55	1	6,55
	25 DC/DC converter	SIM1-1205S-DIL8 12 Vdc 5 Vdc 200 mA 1 W	4,69	1	4,69
	26 Inductor	Axial lead 12 μH 48 m Ω	0,72	1	0,72
	27 Ceramic capacitor	SMD 0805 4.7 μF 25 V 10 %	0,29	2	0,58
	28 Ceramic capacitor	SMD 0805 0.1 μF 25 V 10 %	0,07	2	0,14
	29 Electrolytic capacitor	Radial lead 2.5 mm 100 μ F 25 Vdc 20 $\%$	0,14	2	0,28
	30 Pin connector	Contact spacing: 2.54 mm Total number of pins: 4	0,52	1	0,52
	31 Diode	1N4004	0,13	2	0,26
	32 Relay	TE Connectivity PT370012	12,99	1	12,99
	33 Screw terminal	1.50 mm ² Number of pins 3 AK500/3DS-5.0-V PTR	0,33	3	0,99
	34 Screw terminal	1.50 mm ² Number of pins 2 AK500/2DS-5.0-V PTR	0,27	3	0,81
	35 Pin strip mate with wires	Number of pins 6; Contact spacing: 2.54 mm	1,29	2	2,58
		Total cost electrical subsystem:	550,82		
Optio	nal				
•	36 HDMI adapter	HDMI - HDMI Micro	13,99	1	13,99
	37 Monitor	ASUS VT168H 15,6" Touchscreen	140,29	1	140,29
	38 JTAG programmer	Digilent JTAG-HS3	80,52	1	80,52
	39 USB Hub	4 ports USB 2.0	7,99	1	7,99
	40 Mouse				
	41 Keyboard				
		Total cost assecoires:	242,79		
Extension Cable (optional)					
	42 male connectors	6-pole, 6 A 99-0617-00-06	5,86	3	17,58

	43 female connectors	6-pole, 6 A 99-0618-00-06	7,1	3	21,3
	44 cable	LiYCY 4x0.75mm ²	4,3	6	25,8
	45 male connectors	8-pole, 5 A 99-0645-00-08	9,26	1	9,26
	46 female connectors	8-pole, 5 A 99-0646-00-08	11,56	1	11,56
	47 cable	LIYCY 08x0.5mm² GR	2,32	2	4,64
			,		,
		Total cost extenstion cable:	90,14		
Casing	g				
	48 power socket + filter	250V, 6A, YB06T1	7,69	1	7,69
	49 USB socket	USB 3.0	18,04	1	18,04
	50 HDMI socket + cable	Micro HDMI Male to Female, panel mount, 30cm	8,93	1	8,93
	51 RJ45 socket		14,96	1	14,96
	52 RJ45 cable	0.25m, flexible	4,95	1	4,95
	53 Socket female	3 poles, for emergency button	3,52	1	3,52
	54 Connector	3 poles, for emergency button	6,11	1	6,11
	55 Push button	Power On/Off, momentary SPST	4,03	1	4,03
	56 Push button	Motor power ON/OFF, momentary SPST	4,03	1	4,03
	57 Socket female	6-pole, Stepper motors	4,1	3	12,3
	58 Socket female	8-pole, Limit switches	9,24	1	9,24
	59 Distance holders	M3 inner/outer, 10mm	0,34	8	2,72
	60 Screws	M3x6, power board + BeBePr++ mount, power socket	0,01	8	0,08
	61 Screws	M4x10, countersunk, power supply mount	0,014	4	0,056
	62 Screws	M3x15, driver mount	0,16	12	1,92
	63 Handle		3,4	1	3,4
	64 Screws	M5x22, for handle	0,136	2	0,272
	65 Nuts	M5, for handle	0,045	2	0,09
	66 Washer	M5, for handle	0,0134	2	0,0268
	67 Screws	M8x20, countersunk, to aluminum frame	0,3	8	2,4
	68 Sliding nuts	I-Typ Nut8, M8, mount aluminum frame	0,37	8	2,96

69 Casing material	e.g. Acrylic glas, laser cut (see tech drawings/CAD file	es/docu)		
70 Screws	M5x10, countersunk, front cover mount		12	
71 Screws	M5x15, fixing casing to frame		2	
72 Blade receptacle	6.3mm	0,26	2	0,52
73 Wire end ferrules	0.75mm²	0,013	45	0,585
74 Mounting base		0,91	5	4,55
75 USB cable	USB 2.0	5,03	1	5,03
76 Screws	M4x6, HDMI socket	0,021	2	0,042
	Total cost casing:	118,4518		

Comments Links Alternative Link

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/ou are interested in rebuilding COSI Measure and need the capeboard, please contact lukas.winter@opensourceimaging.org)
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