

**Bill of materials for variant 1****Last Update:** 2018-09-03

Pos	Qty	Type	Manufacturer Number	Description	Price 1	Total 1	Source 1
10	1	PCB		5x 100x100mm PCB	10.00 €	10.00 €	<a href="https://www.smart-prototypin">https://www.smart-prototypin</a>
20	1	FPGA	LCMXO2-4000HC-4TG144C	maps VGA/DVI to USB via DRAM buffer and passes keyboard/mouse input from master to USB HID	9.82 €	9.82 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
30	1	VGA Decoder	TVP7002PZPR	used to decode analog VGA signals from slave to digital outputs	6.65 €	6.65 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
40	1	VGA Connector	ICD15S13E4GX00LF	connection to slave	1.06 €	1.06 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
50	1	DVI-DA Connector	74320-9004	connection to FPGA as optional input	3.25 €	3.25 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
60	1	128MBit DRAM (DQS)	AS4C8M16D1A-5TCN	image FIFO	1.98 €	1.98 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
70	1	USB Bridge	FT2232HL-REEL	connection to master	5.70 €	5.70 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
80	1	USB HID	FT260S-U	connection to slave	1.56 €	1.56 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
90	2	USB-C Connector	10137062-00021LF	to connect master and slave	1.69 €	3.38 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
100	2	USB-C Cable	68798-0009	to connect master and slave	5.79 €	11.58 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
110	1	12MHz 30PPM Crystal	LFXTAL020131Bulk	clock source for USB Bridge	0.21 €	0.21 €	<a href="https://www.mouser.de/Prodi">https://www.mouser.de/Prodi</a>
120	1						
130	1						
140	1						
150	1						

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**Total:** 55.19 €

g.com/PCB-Prototyping.html

uctDetail/Lattice/LCMXO2-4000HC-4TG144C?qs=sGAepiMZZMvoScKIWpK8TEinERSr%2f2GAnZWYvP%2fo3kc%3d

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