

Note: This BOM sheet summarizes the costs for a small production run of 10 pieces, which was the target

Reference	Value	Footprint	Qty	DNP	DigiKey_Part_Number
C1,C2	100nF	Capacitor_SM	2		311-1140-1-ND
C3,C4,C5,C8,	10nF	Capacitor_SM	8		311-1136-1-ND
C6,C7	2.2uF	Capacitor_SM	2		4713-GMC21X7R225K25NTCT
D1	APA-106-F5	LED_THT:LED_	1		1568-1202-ND
J1,J2,J8,J9	FPGA I/O	Connector_Pir	4		S7057-ND
J3,J4,J5	PMOD-FULL	Connector_Pir	3		732-613012243121-ND
J6	PMOD-HALF	Connector_Pir	1		732-613006143121-ND
MT1	PEC11R-4115F-S0(	PEC11R-4215	1		PEC11R-4115F-S0018-ND
R1,R2,R3,R4,F	10k	Resistor_SMD:	16		311-10.0KCRCT-ND
S1	JS5208	JS5208:SW_JS	1		EG4561-ND
U1	SN74LV1T34DBV	Package_TO_S	1		296-37176-1-ND
U2	AP2205-18W5-7	Package_TO_S	1		31-AP2205-18W5-7CT-ND

TOTAL COMPONENTS EXCL. FPGA:

**PCB costs at JLCPCB (blue, HASL (lead), 2 Layers, 99 x 81 mm, 10 Stück**

<b>FPGA Sipeed Tang 9k</b>	Base variant
	With 7" LCD
	With 5" LCD
	With 4.3" LCD
	With 1.14" LCD

**Project cost per student (Excl. Shipping, with FPGA base variant)**

**An FPGA Development System for around ~30 CHF!**

get of this project.

Price 10 PCS

CHF	1.28	+1 for everyone
CHF	2.43	+1 for everyone
CHF	1.16	+1 for everyone
CHF	12.76	
CHF	45.68	
CHF	23.86	
CHF	4.90	
CHF	11.46	
CHF	2.06	+2 for everyone
CHF	24.51	
CHF	2.81	2 reserve, in case someone ruins / loses
CHF	3.37	one
CHF	136.28	
CHF	5.00	~20 CHF shipping
CHF	14.68	
CHF	35.88	Students would order the FPGA separately
CHF	32.09	as some students want other LCDs to go
CHF	26.34	with it.
CHF	17.78	
<b>CHF</b>	<b>33.31</b>	