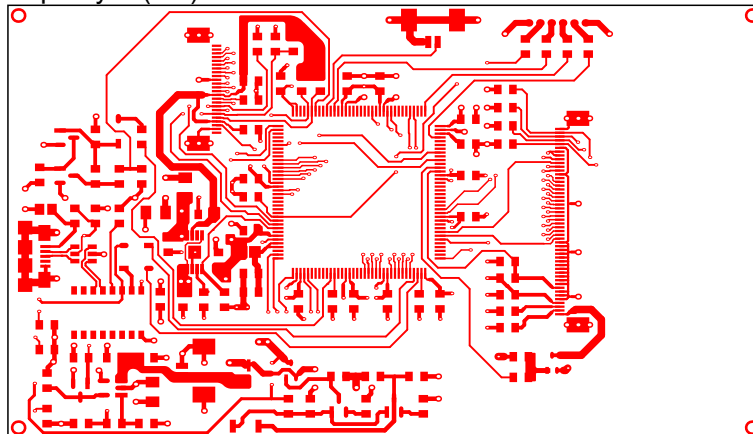
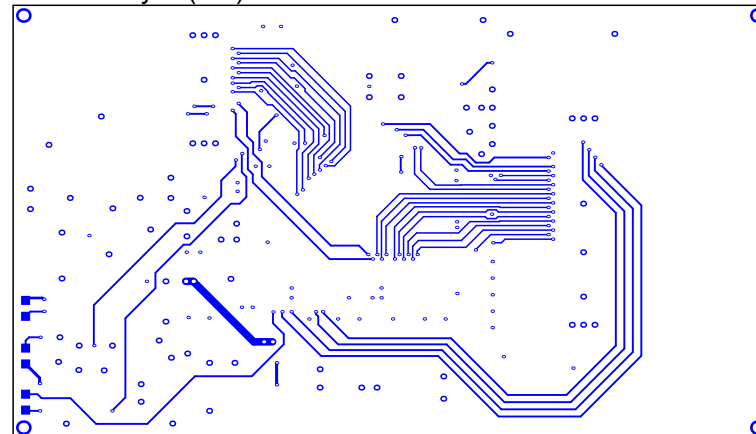


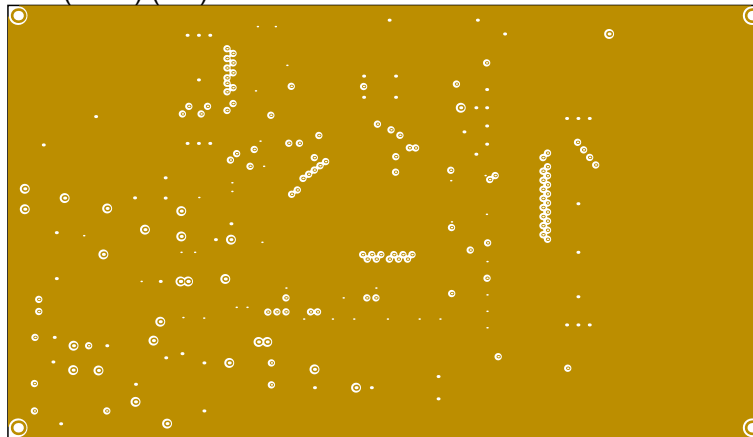
Top Layer (1:1)



Bottom Layer (1:1)



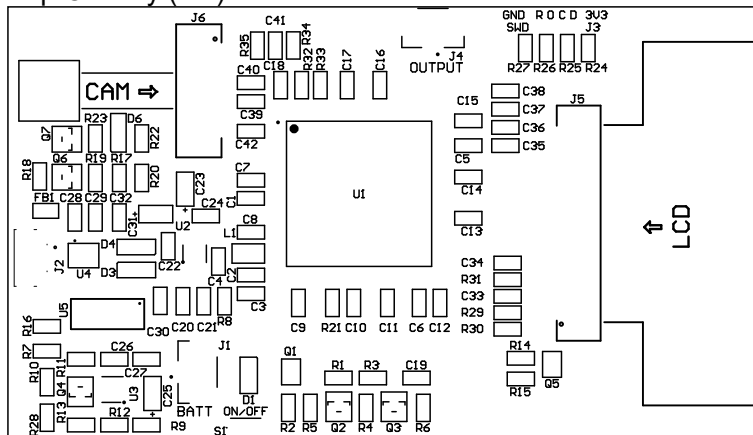
Int1 (GND) (1:1)



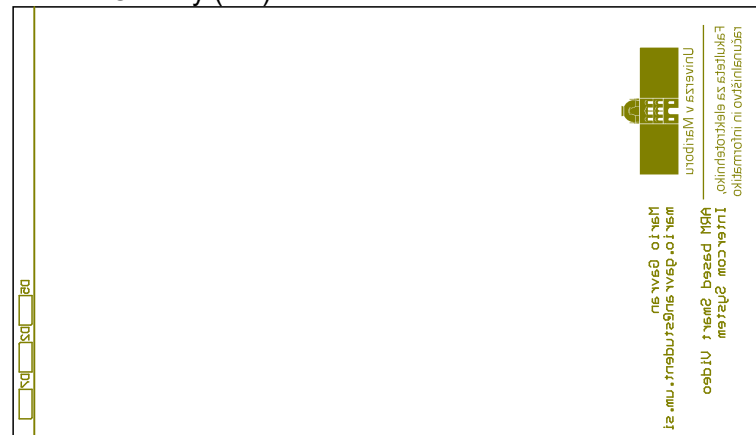
Int2 (PWR) (1:1)



Top Overlay (1:1)



Bottom Overlay (1:1)



## B: Assembly and PCB drawings

Title: <b>ARM based Smart Video Intercom System</b>		
Size: A3	Number: 1	Revision: 0.1
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Fakulteta za elektrotehniko,  
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Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C21, C30, C32, C34, C35, C36, C37, C38, C39, C40, C41, C42	100nF	25
2	C2	1uF	1
3	C3	10nF	1
4	C4, C19, C26, C27, C33	4.7uF	5
5	C5, C6, C20, C22, C24, C28, C29	2.2uF	7
6	C23, C25, C31	10uF	3
7	D1	NSVR1020	1
8	D2	Red	1
9	D3, D4, D6	B0520LW	3
10	D5	Blue	1
11	D7	Green	1
12	FB1	120R-30mRDC	1
13	J1, J4	800mA	2
14	J2	micro USB B	1
15	J3	SMD_PAD	1
16	J5	NT35510	1
17	J6	OV7670	1
18	L1	39nH	1
19	Q1	NTS4101PT1G	1
20	Q2, Q3	2N7002	2
21	Q4, Q6	BSS84L	2
22	Q5	BSS223PW	1
23	Q7	BSS123	1
24	R1, R3, R5, R18, R23	1MR	5
25	R2, R11, R14, R20, R21, R22	100kR	6
26	R4, R6	0R	2
27	R7, R10, R16	2.2kR	3
28	R8, R9, R12, R13, R28, R31, R34, R35	10kR	8
29	R15	1kR	1
30	R17	56kR	1
31	R19	680kR	1
32	R24, R25, R26, R27	22R	4
33	R29, R30	150R	2
34	R32, R33	4.7kR	2
35	S1	50mA	1
36	U1	STM32F413ZHT6	1
37	U2	MIC5357	1
38	U3	MCP73831T	1
39	U4	USBLC6-2SC6	1
40	U5	CH340C	1

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.02mm	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.02mm		Surface Finish	
CF-004	Top Layer	0.04mm		Signal	GTL
Prepreg		0.20mm	PP-017	Dielectric	
CF-004	Int1 (GND)	0.02mm		Signal	G1
Core		1.06mm	Core-039	Dielectric	
CF-004	Int2 (PWR)	0.02mm		Signal	G2
Prepreg		0.20mm	PP-017	Dielectric	
CF-004	Bottom Layer	0.04mm		Signal	GBL
PbSn	Bottom Surface Finish	0.02mm		Surface Finish	
Surface Material	Bottom Solder	0.02mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.65mm					

B: Assembly and PCB drawings

Title: <i>ARM based Smart Video Intercom System</i>			UM FERİ Koroška cesta 46 2000 Maribor Slovenia mario.gavran@student.um.si
Size: A3	Number: 1	Revision: 0.1	
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