

RadioRepeater

Variant: [No Variations]

08.12.2021
v1.0

DRAFT

Page	Index	Page	Index	Page	Index	Page	Index
1	COVER PAGE	11		21		31	
2	BLOCK DIAGRAM	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8	DOC REVISION HISTORY	18		28		38	
9		19		29		39	
10		20		30		40	

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes .

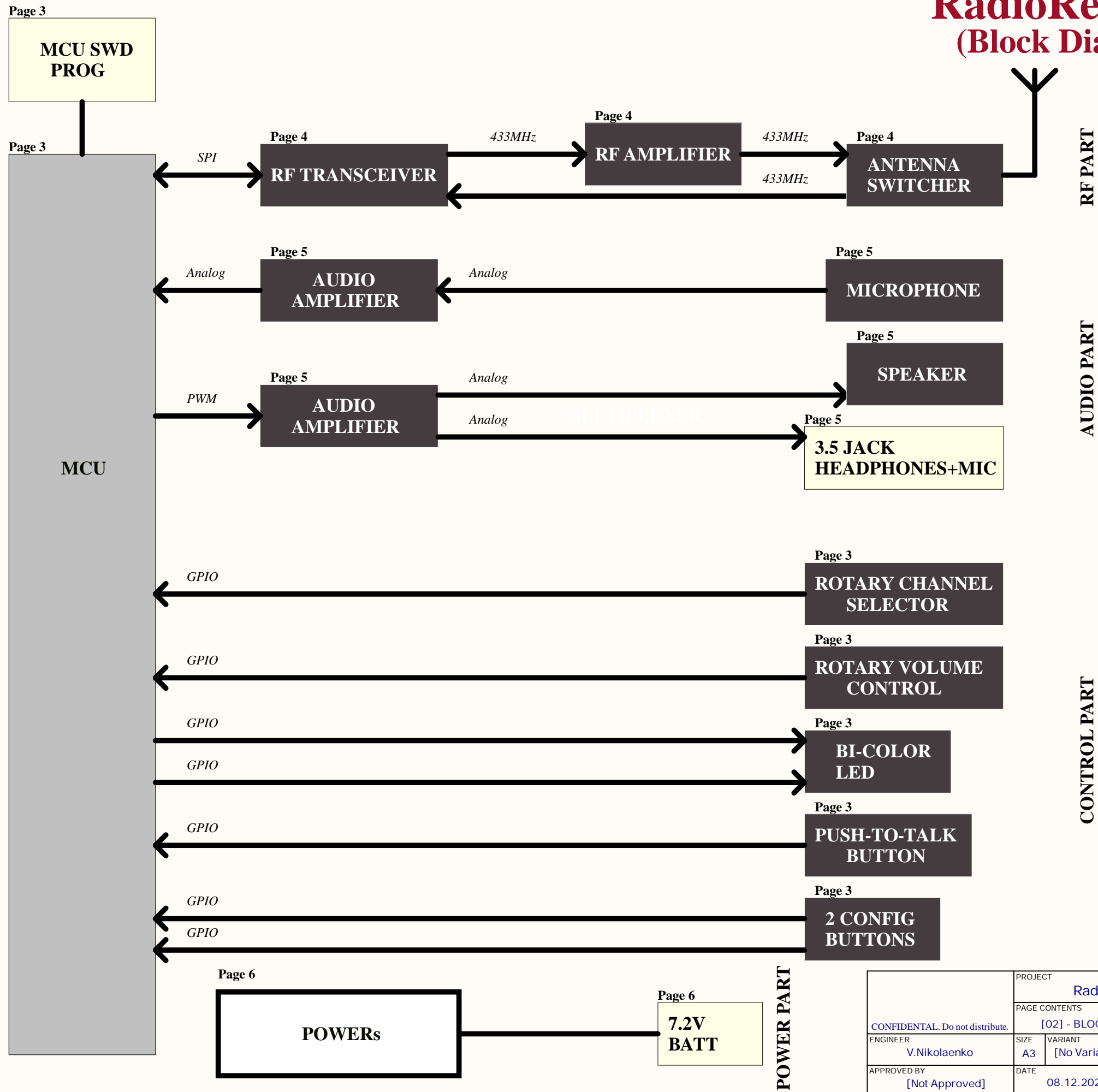
DESIGN NOTE:
Example text for critical
design notes.

DESIGN NOTE:
Example text for cautionary
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

		PROJECT		RadioRepeater	
		PAGE CONTENTS		[01] - COVER PAGE.SchDoc	
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ENGINEER V.Nikolaenko		A3	[No Variations]	v1.0	
APPROVED BY [Not Approved]		DATE	08.12.2021		SHEET 1 of 7

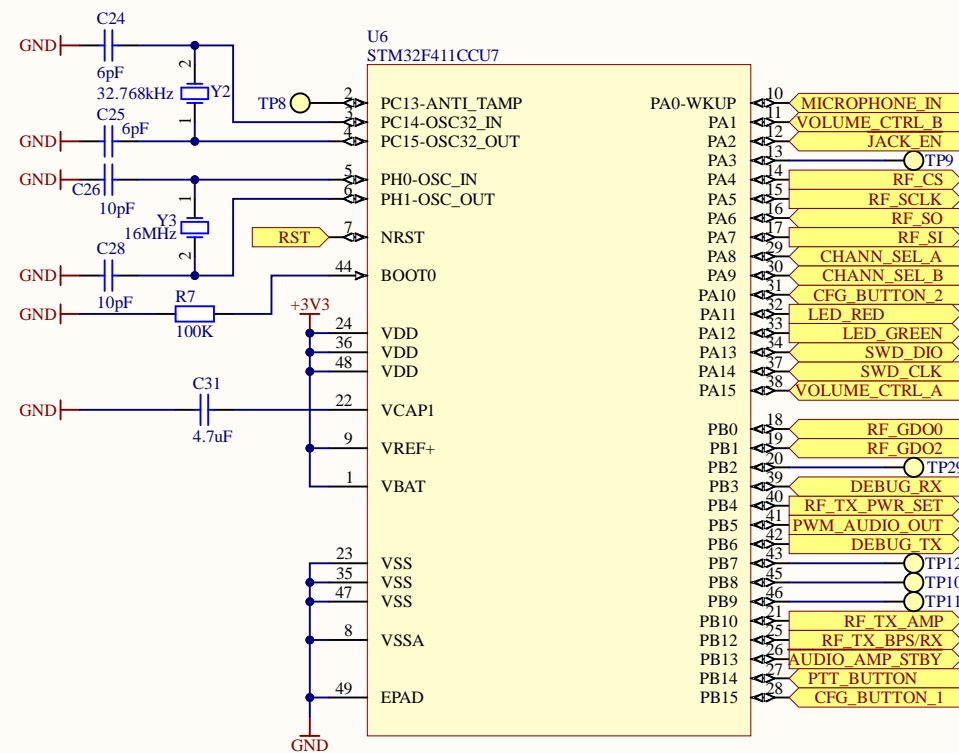
RadioRepeater (Block Diagram)



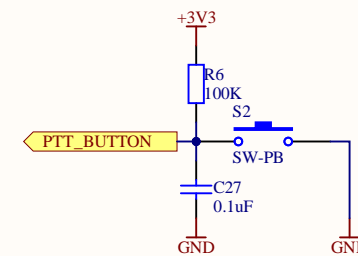
		PROJECT	
		RadioRepeater	
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		[02] - BLOCK DIAGRAM.SchDoc	
ENGINEER	SIZE	VARIANT	REVISION
V.Nikolaenko	A3	[No Variations]	v1.0
APPROVED BY	DATE		SHEET
[Not Approved]	08.12.2021		2 of 7

MCU, CONTROLS

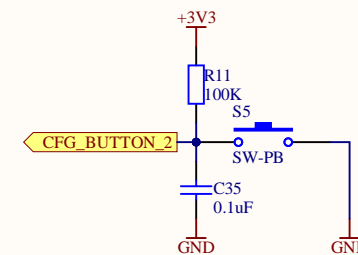
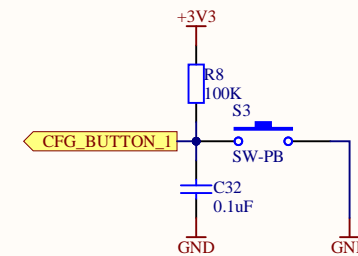
MCU



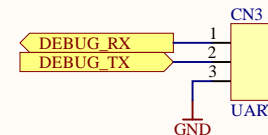
Push-To-Talk Button



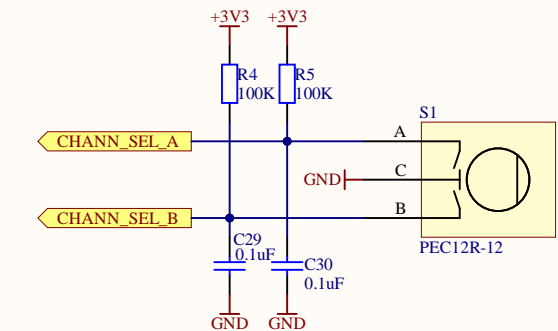
Config Buttons



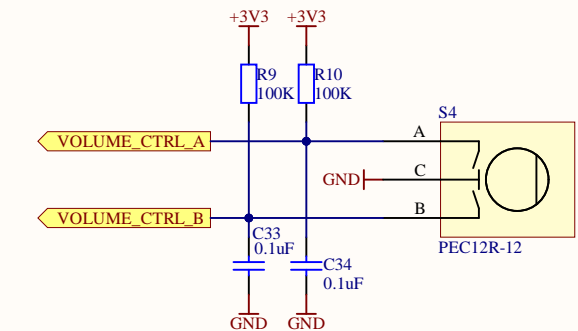
Debug UART



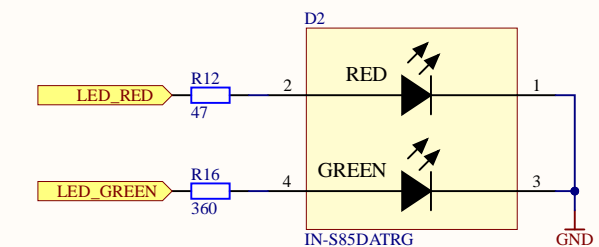
Channel Selector



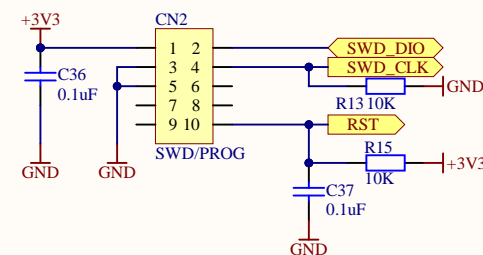
Volume Control



2-Color LED

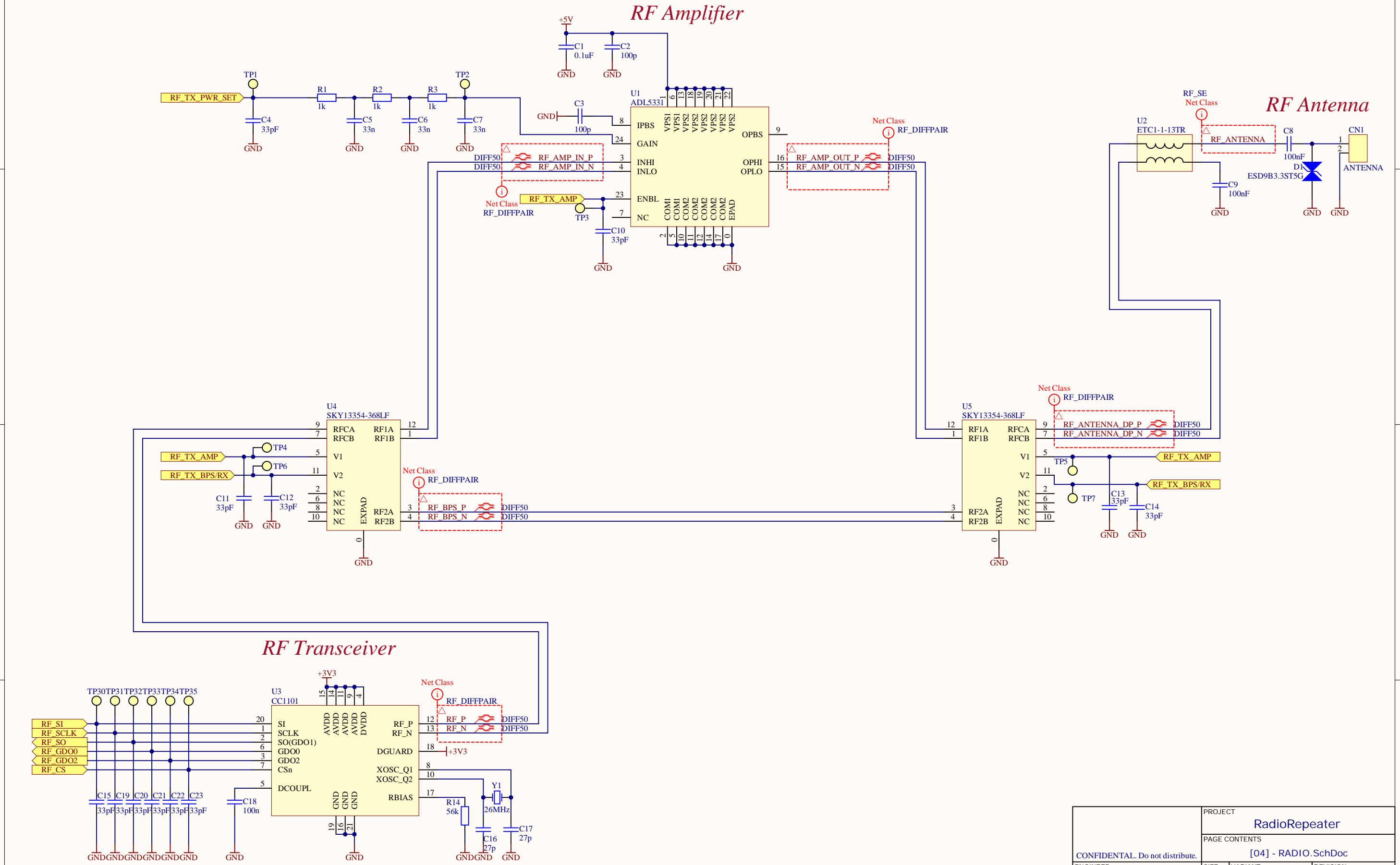


SWD Connector



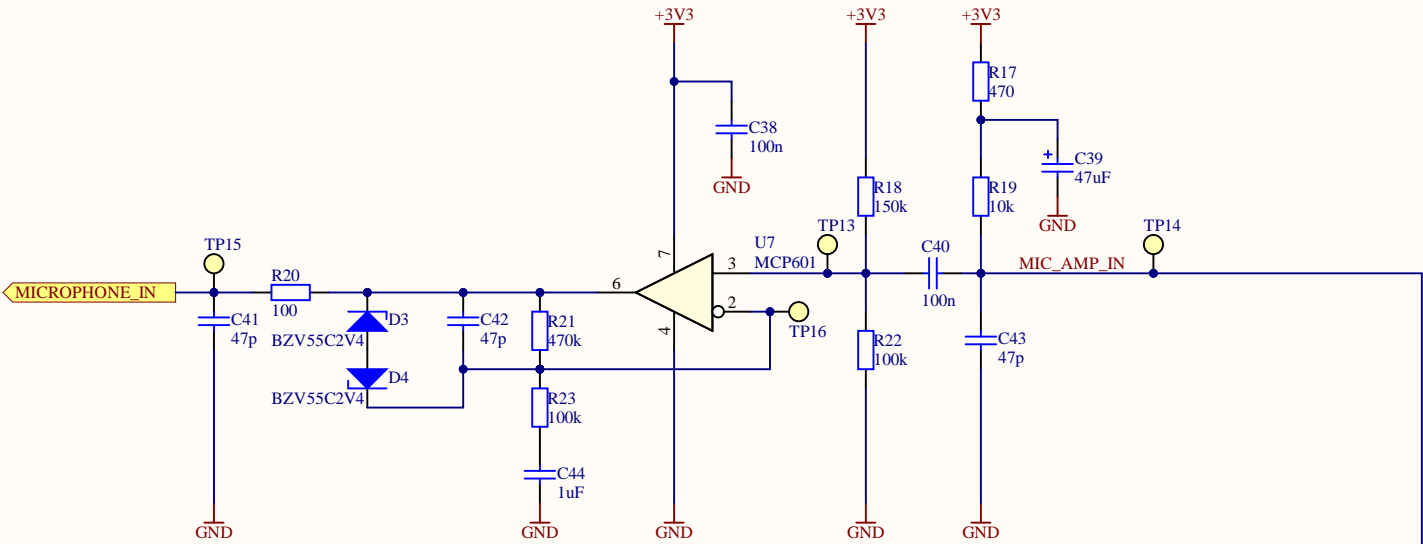
CONFIDENTIAL. Do not distribute. ENGINEER V.Nikolaenko APPROVED BY [Not Approved]	PROJECT RadioRepeater		
	PAGE CONTENTS [03] - MCU,CONTROLS.SchDoc		
	SIZE A3	VARIANT [No Variations]	REVISION v1.0
	DATE 08.12.2021	SHEET 3 of 7	

RADIO

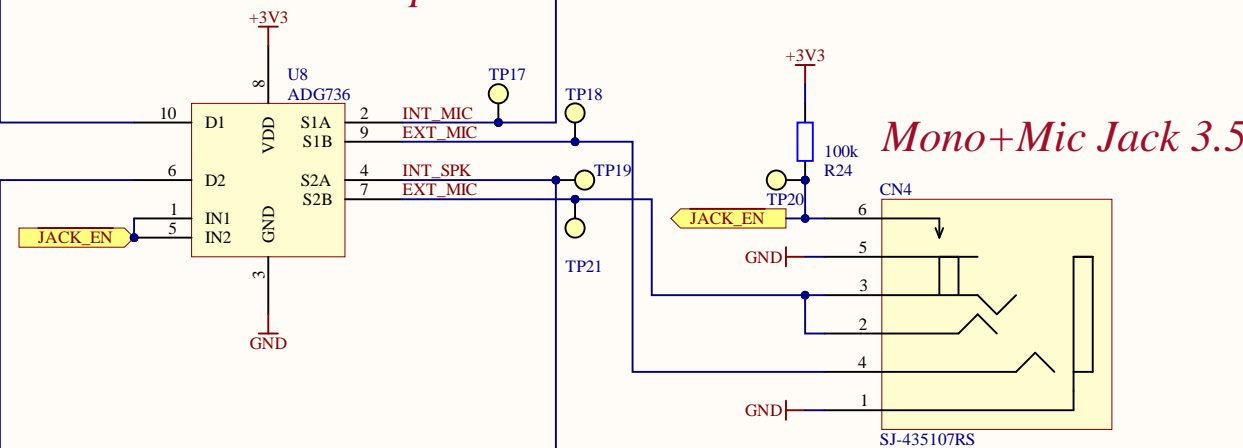


<div>CONFIDENTIAL. Do not distribute.</div>	PROJECT		
	RadioRepeater		
	PAGE CONTENTS		
	[04] - RADIO.SchDoc		
ENGINEER	SIZE	VARIANT	REVISION
V.Nikolaenko	A3	[No Variations]	v1.0
APPROVED BY	DATE		SHEET
[Not Approved]	08.12.2021		4 of 7

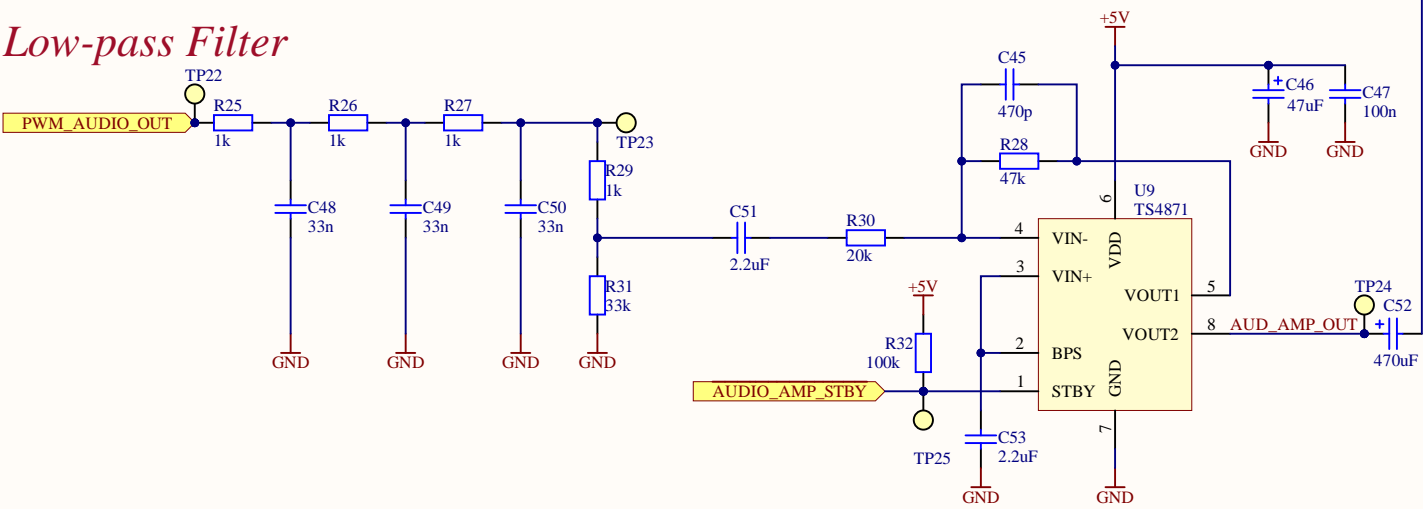
Microphone Amplifier



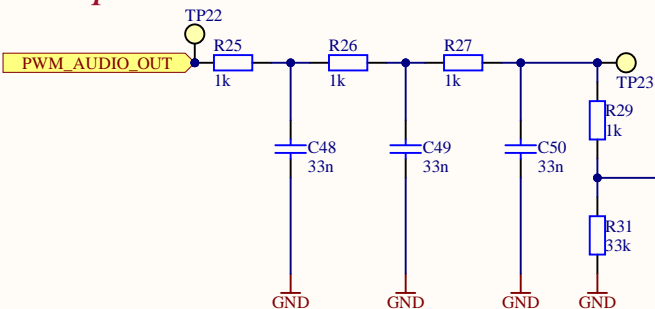
Audio and Mic Multiplexer



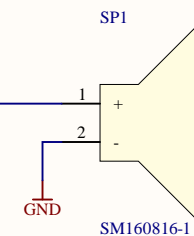
Output Amplifier



Low-pass Filter



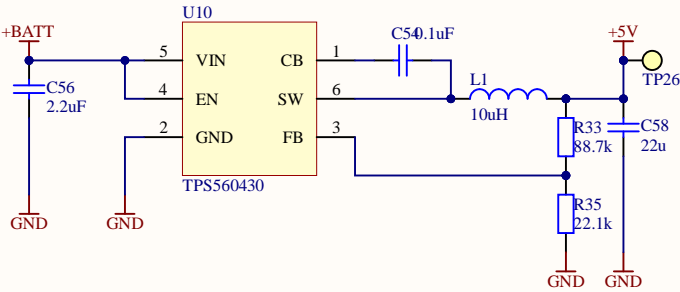
Integrated Speaker



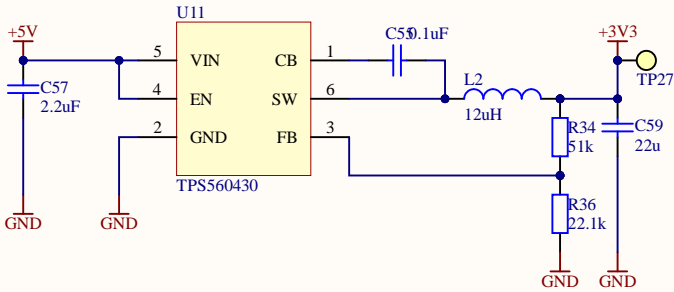
CONFIDENTIAL. Do not distribute.	PROJECT		
	RadioRepeater		
	PAGE CONTENTS		
	[05] - AUDIO.SchDoc		
ENGINEER	SIZE	VARIANT	REVISION
V.Nikolaenko	A3	[No Variations]	v1.0
APPROVED BY	DATE	SHEET	
[Not Approved]	08.12.2021	5 of 7	

POWER

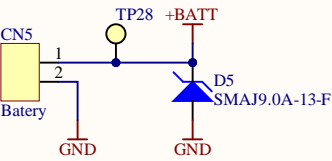
5V Source



3.3V Source



Battery Connector



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	RadioRepeater		
	PAGE CONTENTS		
	[06] - POWER.SchDoc		
ENGINEER	SIZE	VARIANT	REVISION
V.Nikolaenko	A3	[No Variations]	v1.0
APPROVED BY	DATE	SHEET	
[Not Approved]	08.12.2021	6 of 7	

	1	2	3	4	5	6	7	8																														
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B									B																													
C									C																													
D	CLOCK(S) (CPU & PCIe)						<table><tr><td rowspan="4">CONFIDENTAL. Do not distribute.</td><td colspan="3">PROJECT</td></tr><tr><td colspan="3">RadioRepeater</td></tr><tr><td colspan="3">PAGE CONTENTS</td></tr><tr><td colspan="3">[07] - DOC REVISION HISTORY.SchDoc</td></tr><tr><td>ENGINEER</td><td>V.Nikolaenko</td><td>SIZE</td><td>A3</td><td>VARIANT</td><td>[No Variations]</td><td>REVISION</td><td>v1.0</td></tr><tr><td>APPROVED BY</td><td colspan="2">[Not Approved]</td><td>DATE</td><td colspan="2">08.12.2021</td><td>SHEET</td><td>7 of 7</td></tr></table>		CONFIDENTAL. Do not distribute.	PROJECT			RadioRepeater			PAGE CONTENTS			[07] - DOC REVISION HISTORY.SchDoc			ENGINEER	V.Nikolaenko	SIZE	A3	VARIANT	[No Variations]	REVISION	v1.0	APPROVED BY	[Not Approved]		DATE	08.12.2021		SHEET	7 of 7	D
CONFIDENTAL. Do not distribute.	PROJECT																																					
	RadioRepeater																																					
	PAGE CONTENTS																																					
	[07] - DOC REVISION HISTORY.SchDoc																																					
ENGINEER	V.Nikolaenko	SIZE	A3	VARIANT	[No Variations]	REVISION	v1.0																															
APPROVED BY	[Not Approved]		DATE	08.12.2021		SHEET	7 of 7																															
	1	2	3	4	5	6	7	8																														

Date: 08.12.2021

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	<div>PAGE CONTENTS</div> <div>[07] - DOC REVISION HISTORY.SchDoc</div>		
	<div>SIZE</div> <div>A3</div>	<div>VARIANT</div> <div>[No Variations]</div>	<div>REVISION</div> <div>v1.0</div>
<div>APPROVED BY</div> <div>[Not Approved]</div>	<div>DATE</div> <div>08.12.2021</div>		<div>SHEET</div> <div>7 of 7</div>

A

A

B

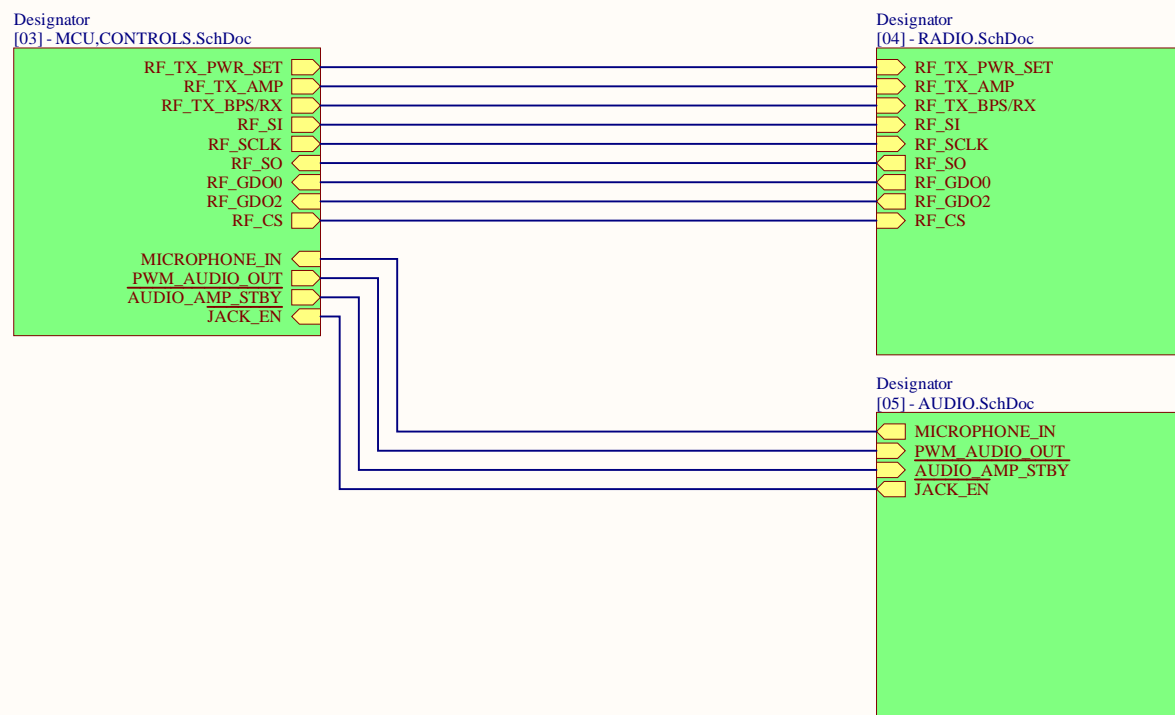
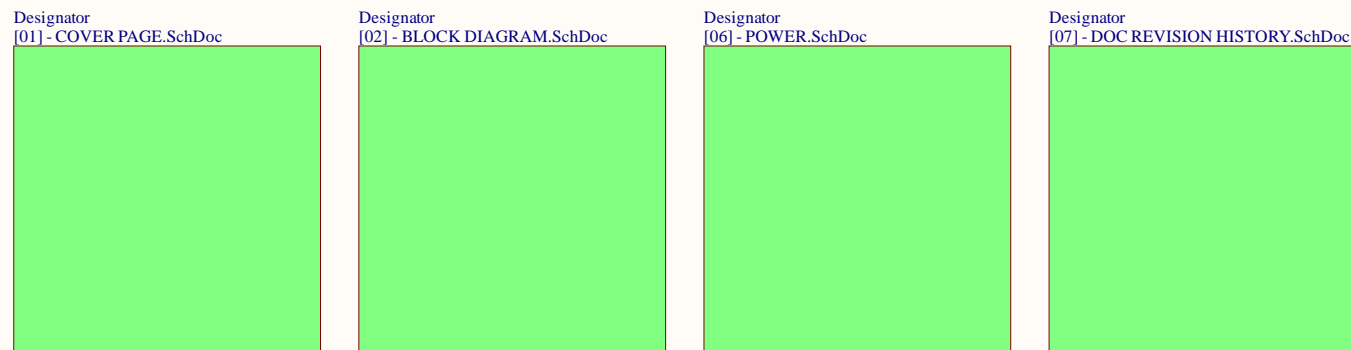
B

C

C

D

D



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	PAGE CONTENTS <h2>RadioRepeater.SchDoc</h2>		
ENGINEER V. Nikolaenko	SIZE A3	VARIANT [No Variations]	REVISION v1.0
APPROVED BY [Not Approved]	DATE 08.12.2021		SHEET 8 of 8