

ZONE	REV	DATE	DESCRIPTION	ECO

RTester SLCDX
PWA: 999-00234 Rev 1
PWB: 999-00233 Rev 1

Designator
Top.SchDoc

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for debug notes.

DESIGN NOTE:
Example text for cautionary
design notes.

DESIGN NOTE:
Example text for critical
design notes.

LAYOUT NOTE:
Example text for critical
layout guidelines.

STUFF OPTION:
Example text for stuff option.

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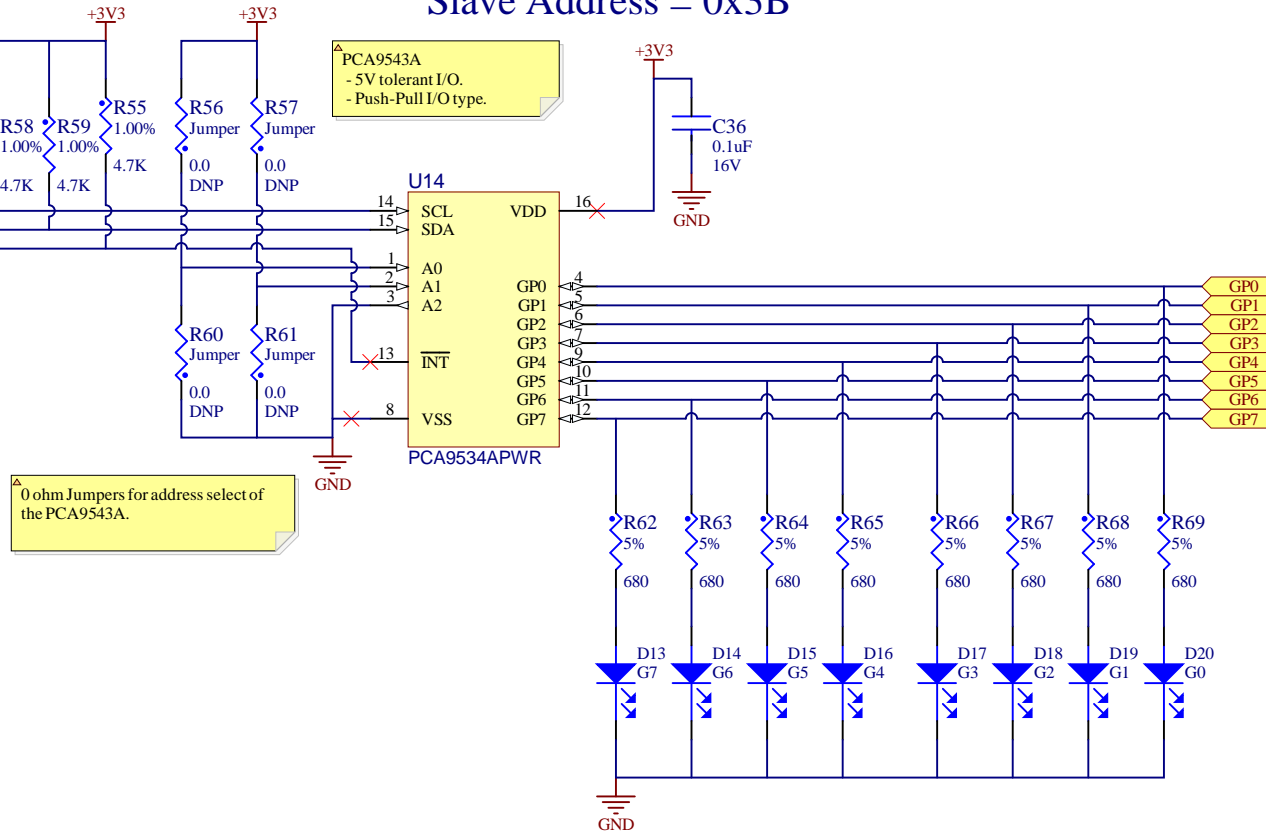
REVISED BY:	<div>REACH TECHNOLOGY INC.</div>				
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	DATE DRAWN	ENGINEER	DRAWN BY	DRAWING SIZE: A	REV.
	APPROVAL / RELEASE			SHEET: 1 OF 9 DRAWING NUMBER 999-00122.	1D
RELEASE:	DATE:	RELEASED BY:			
TOOLING					
PRODUCTION					

CHECKED BY:

ZONE	REV	DATE	DESCRIPTION	ECO

8 GPIO Slave Address = 0x3B

PCA9543A
- 5V tolerant I/O.
- Push-Pull I/O type.

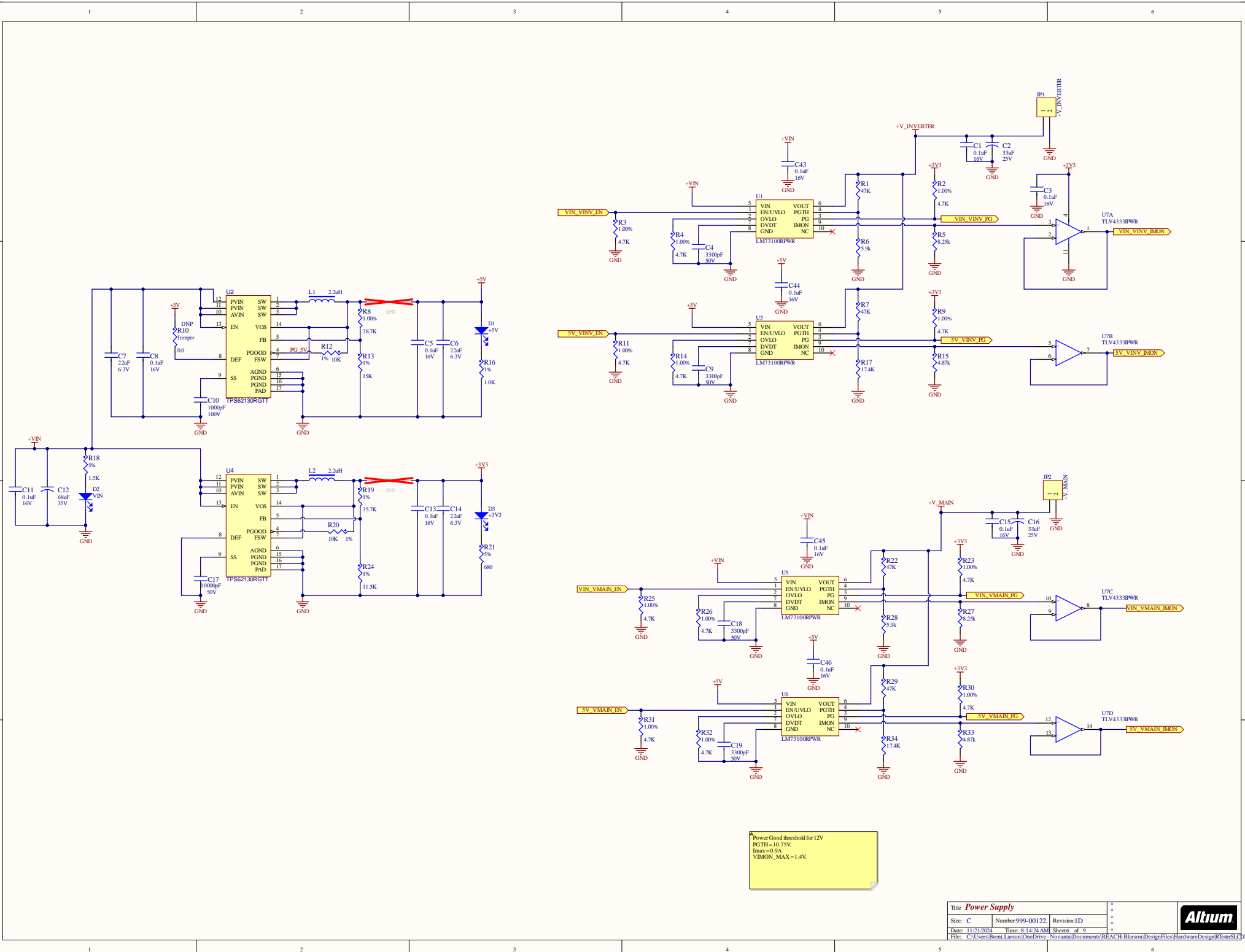


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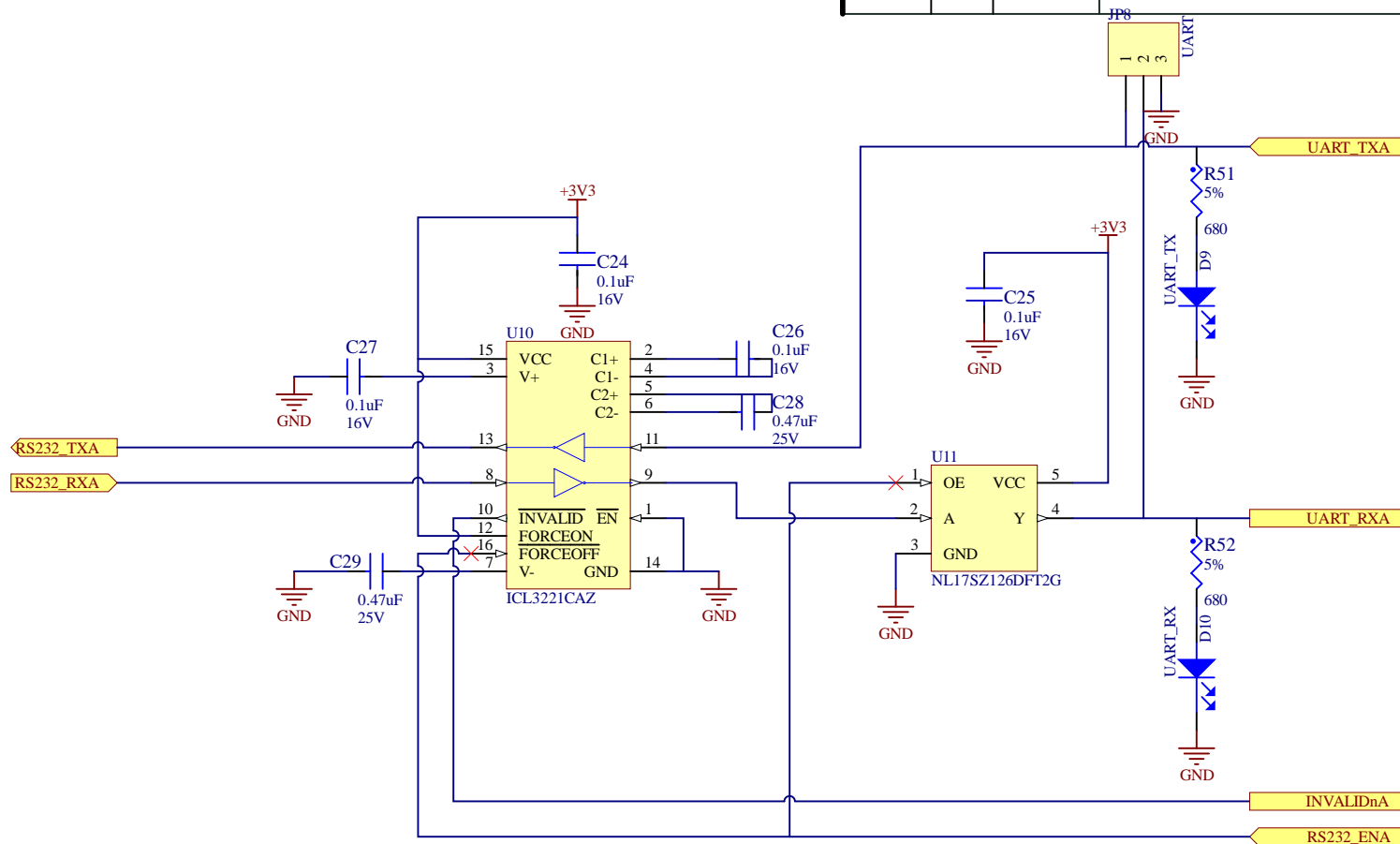
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	APPROVAL / RELEASE			SHEET: 3 OF 9	1D
	RELEASE:	DATE:	RELEASED BY:		
	TOOLING			DRAWING NUMBER	
	PRODUCTION			999-00122.	

A

11/21/2024 8:14:24 AM



ZONE	REV	DATE	DESCRIPTION	ECO



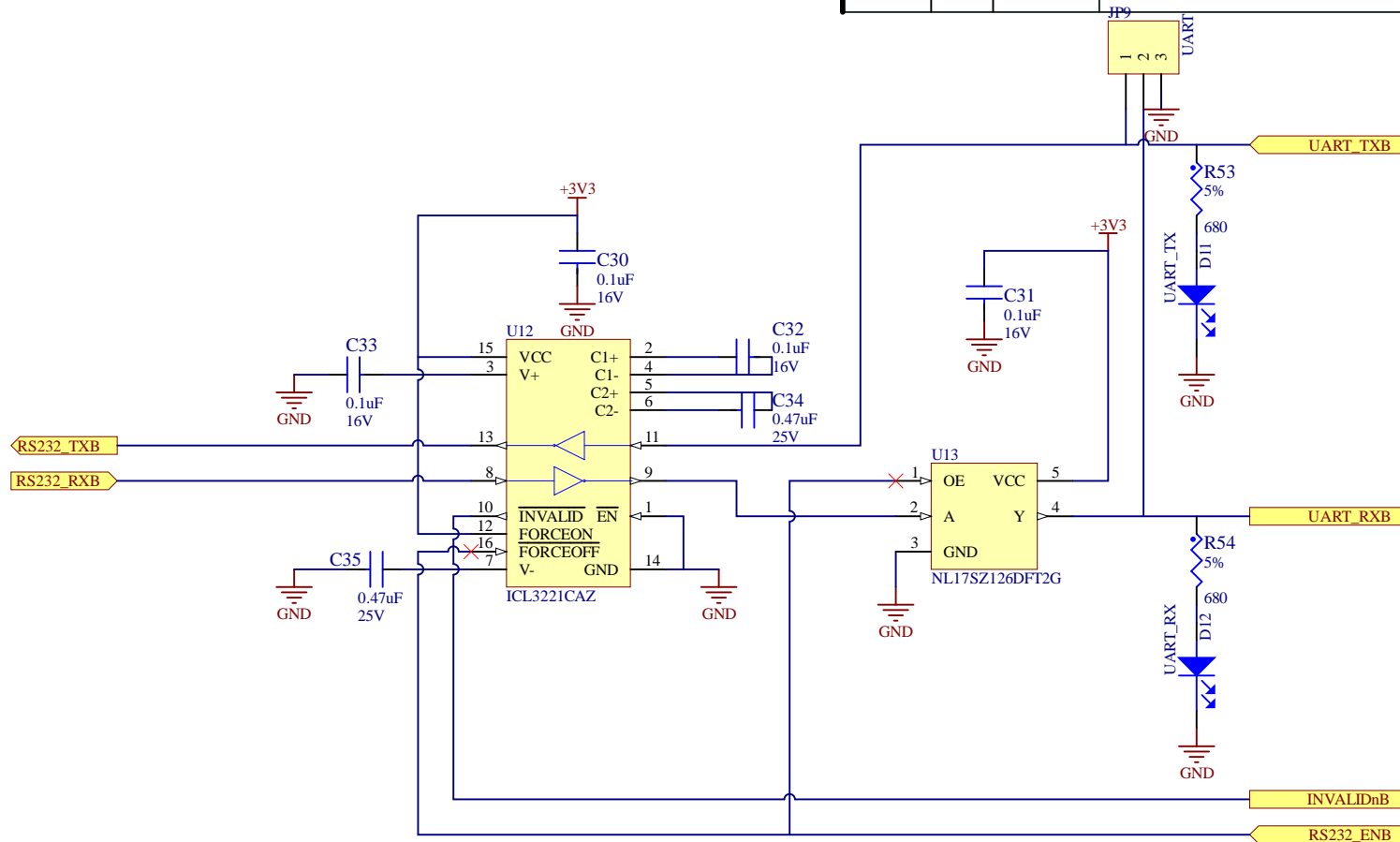
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RS-232 Signal Present at Receiver Input?	FORCEOFF or SHDN Input	FORCEON Input	EN Input	Transmitter Outputs	Receiver Outputs	Routs Outputs (Note 5)	INVALID Output	Mode of Operation
N.A.	H	N.A.	H	Active	High-Z	Active	N.A.	Normal Operation w/Rcvr. Disabled
ICL3221, ICL3223								
No	H	H	L	Active	Active	N.A.	L	Normal Operation (Auto Powerdown Disabled)
No	H	H	H	Active	High-Z	N.A.	L	
Yes	H	L	L	Active	Active	N.A.	H	Normal Operation (Auto Powerdown Enabled)
Yes	H	L	H	Active	High-Z	N.A.	H	
No	H	L	L	High-Z	Active	N.A.	L	Powerdown Due to Auto Power-Down Logic
No	H	L	H	High-Z	High-Z	N.A.	L	
Yes	L	X	L	High-Z	Active	N.A.	H	Manual Powerdown
Yes	L	X	H	High-Z	High-Z	N.A.	H	Manual Powerdown w/Rcvr. Disabled
No	L	X	L	High-Z	Active	N.A.	L	Manual Powerdown
No	L	X	H	High-Z	High-Z	N.A.	L	Manual Powerdown w/Rcvr. Disabled

REVISED BY:				
	SCHEMATIC TITLE: UART - I2C			
CHECKED BY:	DATE DRAWN	ENGINEER	DRAWN BY	DRAWING SIZE: A
	APPROVAL / RELEASE			REV. 1D
	RELEASE:	DATE:	RELEASED BY:	SHEET: 8 OF 9
	TOOLING			DRAWING NUMBER
	PRODUCTION			999-00122.1

ZONE	REV	DATE	DESCRIPTION	ECO



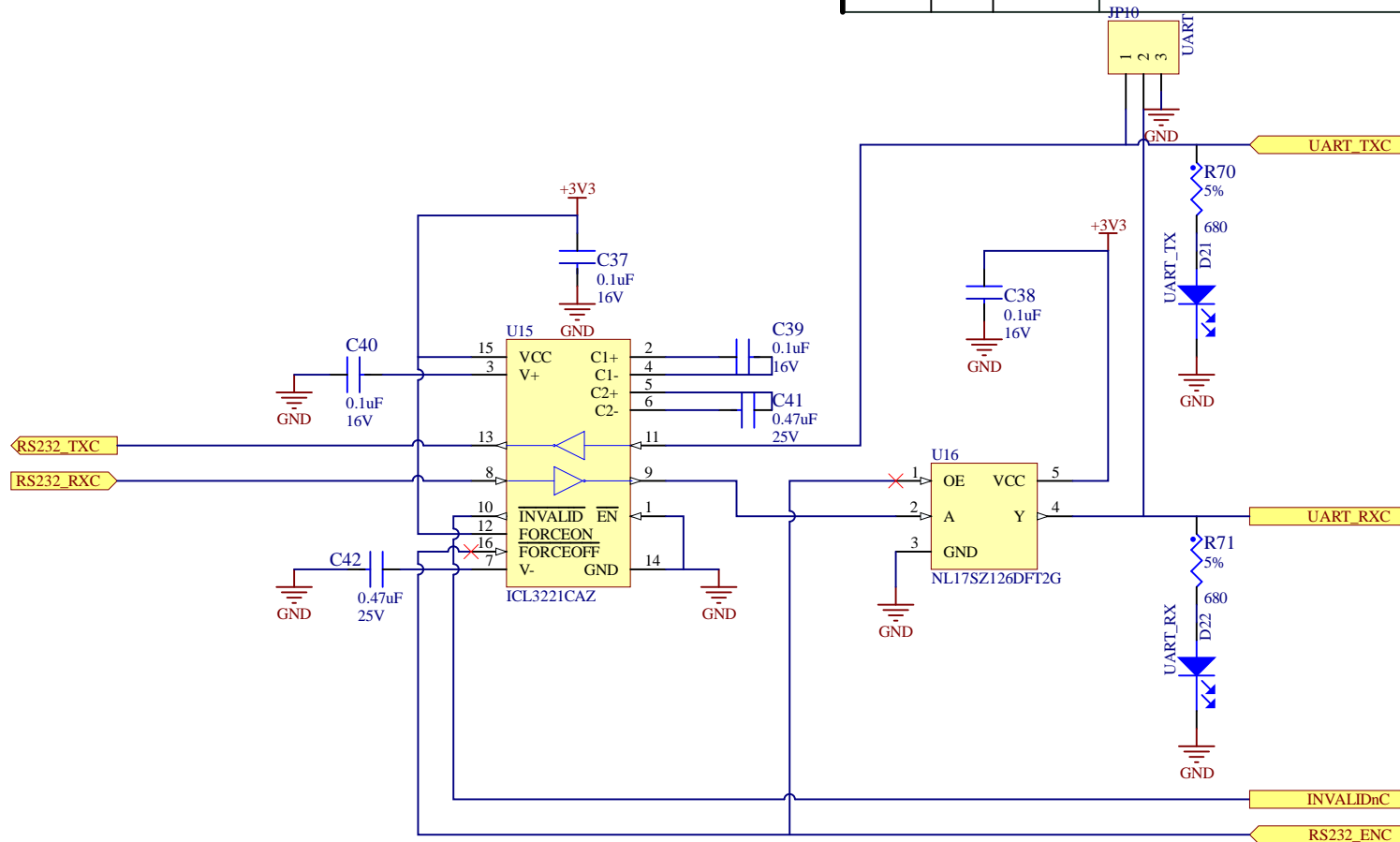
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RS-232 Signal Present at Receiver Input?	FORCEOFF or SHDN Input	FORCEON Input	EN Input	Transmitter Outputs	Receiver Outputs	Routs Outputs (Note 5)	INVALID Output	Mode of Operation
N.A.	H	N.A.	H	Active	High-Z	Active	N.A.	Normal Operation w/Rcvr. Disabled
ICL3221, ICL3223								
No	H	H	L	Active	Active	N.A.	L	Normal Operation (Auto Powerdown Disabled)
No	H	H	H	Active	High-Z	N.A.	L	
Yes	H	L	L	Active	Active	N.A.	H	Normal Operation (Auto Powerdown Enabled)
Yes	H	L	H	Active	High-Z	N.A.	H	
No	H	L	L	High-Z	Active	N.A.	L	Powerdown Due to Auto Power-Down Logic
No	H	L	H	High-Z	High-Z	N.A.	L	
Yes	L	X	L	High-Z	Active	N.A.	H	Manual Powerdown
Yes	L	X	H	High-Z	High-Z	N.A.	H	Manual Powerdown w/Rcvr. Disabled
No	L	X	L	High-Z	Active	N.A.	L	Manual Powerdown
No	L	X	H	High-Z	High-Z	N.A.	L	Manual Powerdown w/Rcvr. Disabled

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	APPROVAL / RELEASE			1D
	RELEASE:	DATE:	RELEASED BY:	
	TOOLING			DRAWING NUMBER 999-00122.2
	PRODUCTION			

ZONE	REV	DATE	DESCRIPTION	ECO



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RS-232 Signal Present at Receiver Input?	FORCEOFF or SHDN Input	FORCEON Input	EN Input	Transmitter Outputs	Receiver Outputs	Routs Outputs (Note 5)	INVALID Output	Mode of Operation
N.A.	H	N.A.	H	Active	High-Z	Active	N.A.	Normal Operation w/Rcvr. Disabled
ICL3221, ICL3223								
No	H	H	L	Active	Active	N.A.	L	Normal Operation (Auto Powerdown Disabled)
No	H	H	H	Active	High-Z	N.A.	L	
Yes	H	L	L	Active	Active	N.A.	H	Normal Operation (Auto Powerdown Enabled)
Yes	H	L	H	Active	High-Z	N.A.	H	
No	H	L	L	High-Z	Active	N.A.	L	Powerdown Due to Auto Power-Down Logic
No	H	L	H	High-Z	High-Z	N.A.	L	
Yes	L	X	L	High-Z	Active	N.A.	H	Manual Powerdown
Yes	L	X	H	High-Z	High-Z	N.A.	H	Manual Powerdown w/Rcvr. Disabled
No	L	X	L	High-Z	Active	N.A.	L	Manual Powerdown
No	L	X	H	High-Z	High-Z	N.A.	L	Manual Powerdown w/Rcvr. Disabled

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	SCHEMATIC TITLE: UART - I2C			
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	RELEASE:	DATE:	RELEASED BY:	REV. 1D
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	TOOLING			DRAWING NUMBER
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ZONE	REV	DATE	DESCRIPTION	ECO

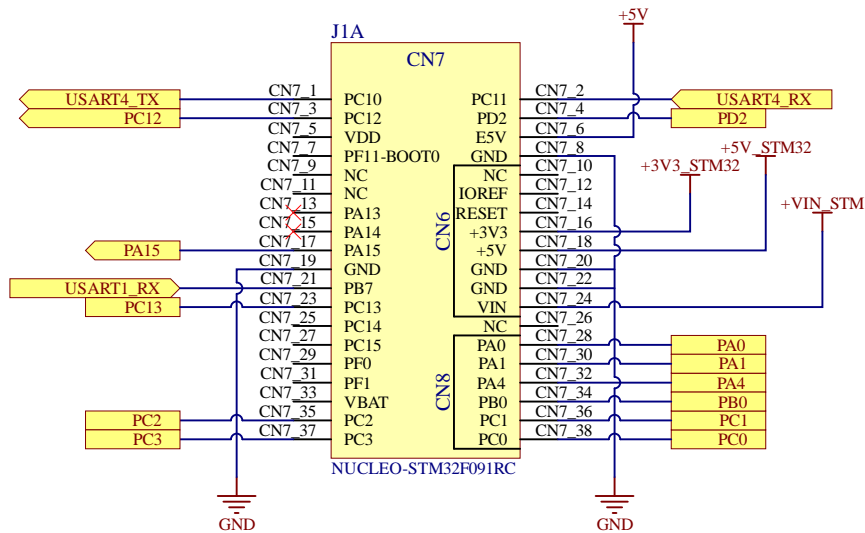
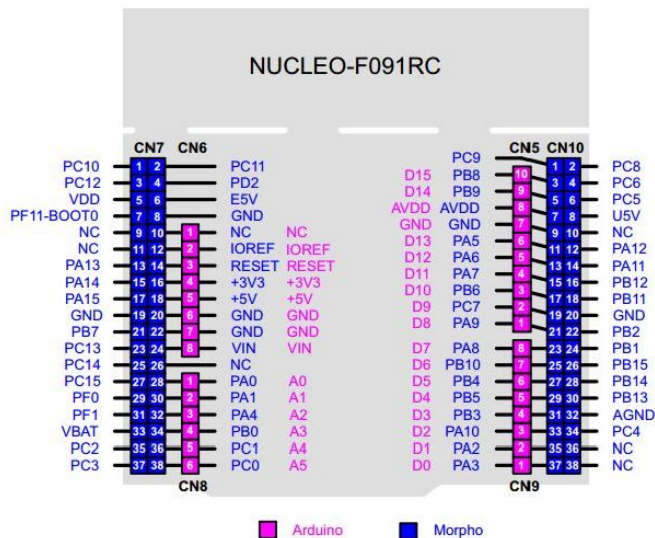


Figure 13. NUCLEO-F091RC



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	SCHEMATIC TITLE: STM32			
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	TOOLING			DRAWING NUMBER
	PRODUCTION			999-00122.