

Module name

Notecarrier-XS

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Design considerations

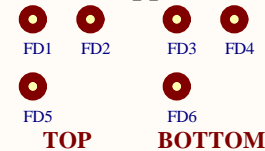
SOFTWARE CONFIG NOTE:

- Contains important notes for software development.  
- Things like: pin configuration, timing requirements,  
IC configuration etc.

DESIGN NOTE:

- Hardware notes

Board support



PCB1

PCB

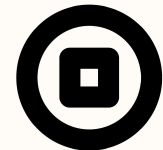
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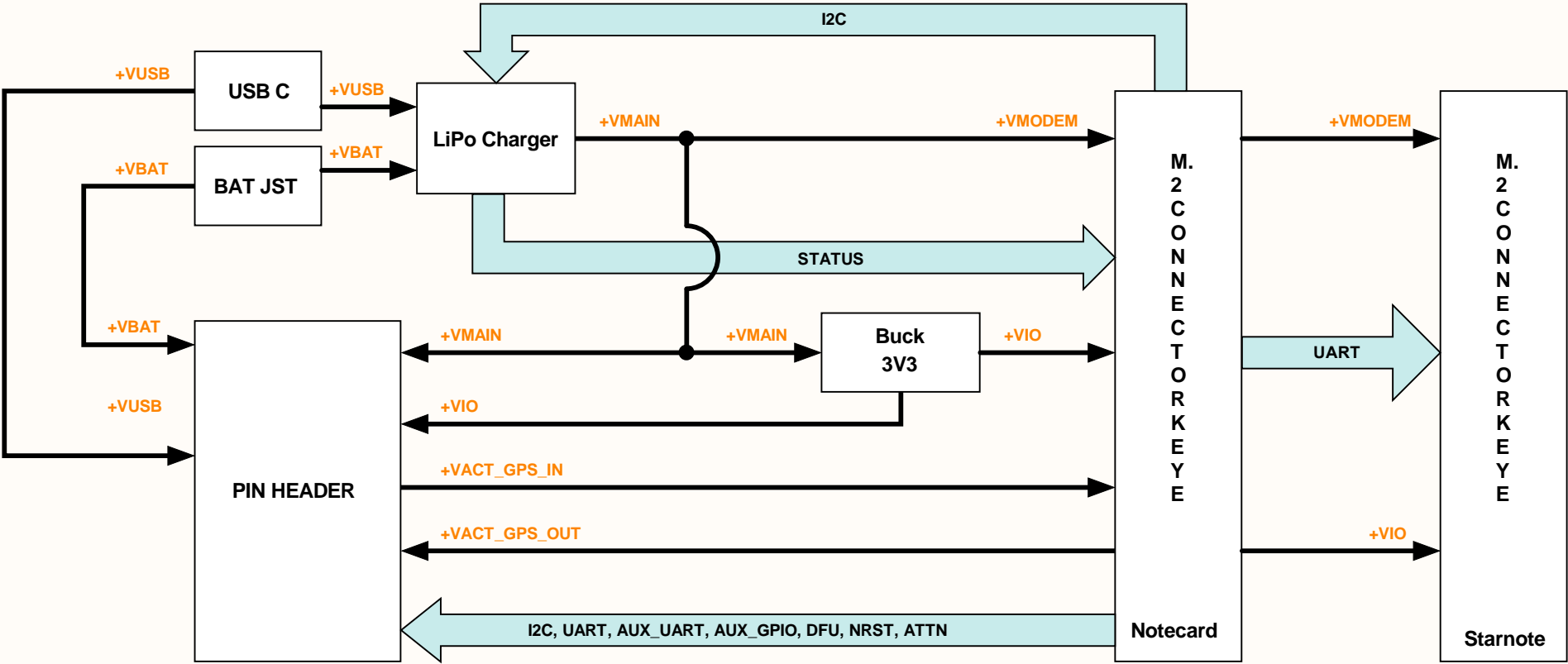
DOC1

HW-E

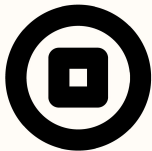
100426

Title: 01_COVER.SchDoc			
Project: 100426_notecarrier-xs.PrjPCB			
Company: Byte Lab Grupa d.o.o.		Medarska 69/1, 10000 Zagreb, Croatia www.byte-lab.com	
Author: M. Marsic		Acceptor: J. Wiedey	
Sheet 1 of 5		Rev: 11	Format: A4

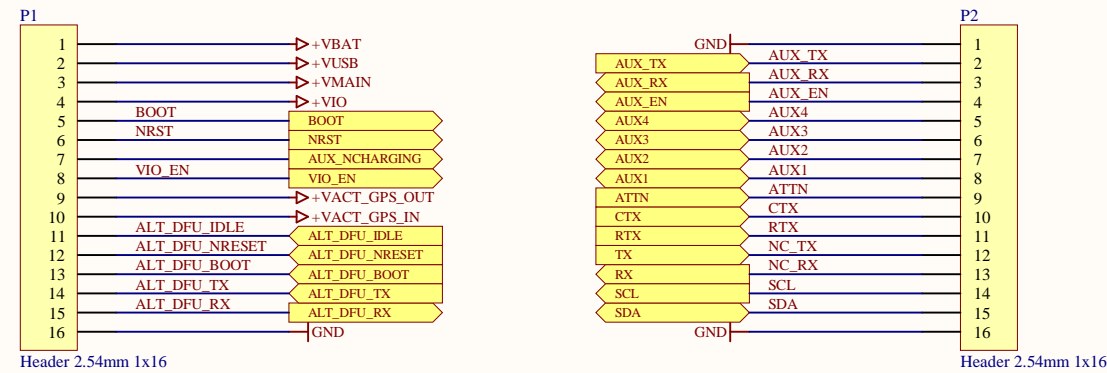




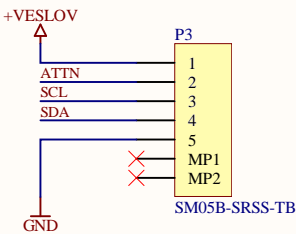
Title: 02_BLOCK-DIAGRAM.SchDoc			
Project: 100426_notecarrier-xs.PrjPCB			
Company: Byte Lab Grupa d.o.o.		Medarska 69/1, 10000 Zagreb, Croatia www.byte-lab.com	
Author:	M. Marsic	Acceptor:	J. Wiedey
Sheet 2 of 5		Rev: 11	Format: A4



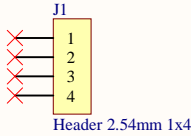
I/O Pin Headers & Castellations



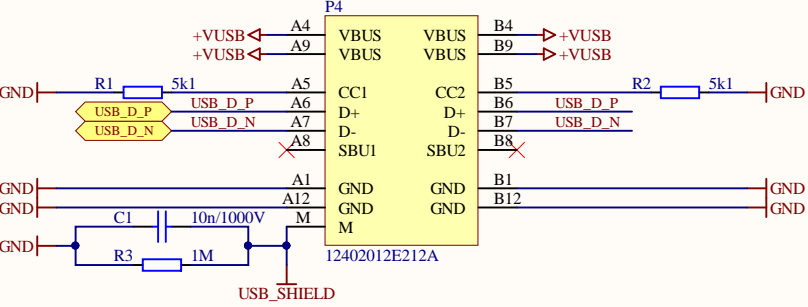
ESLOV Connector



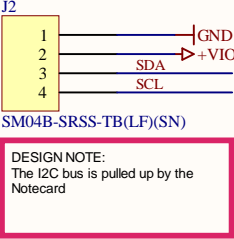
Mech Support Connector



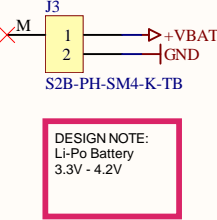
USB C Connector



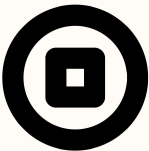
QWIIC Connector



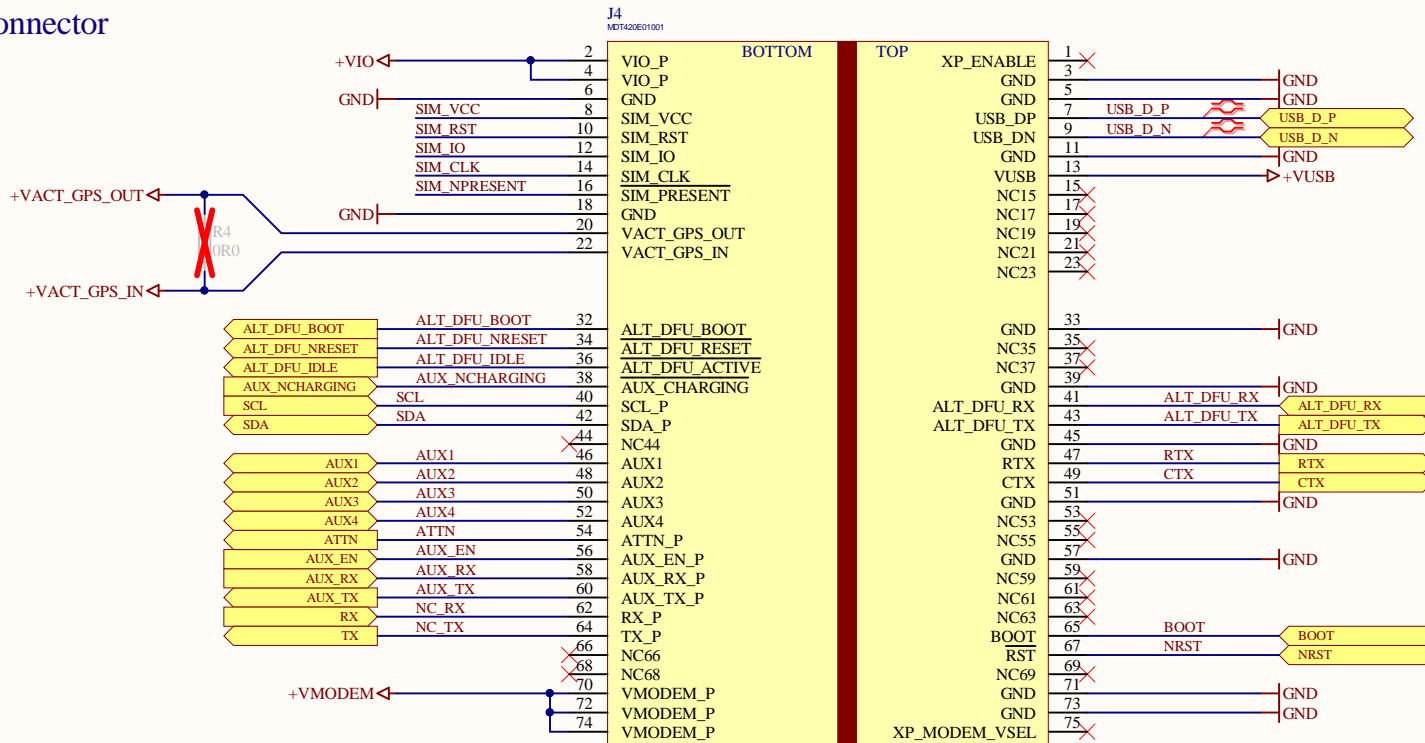
Battery Connector



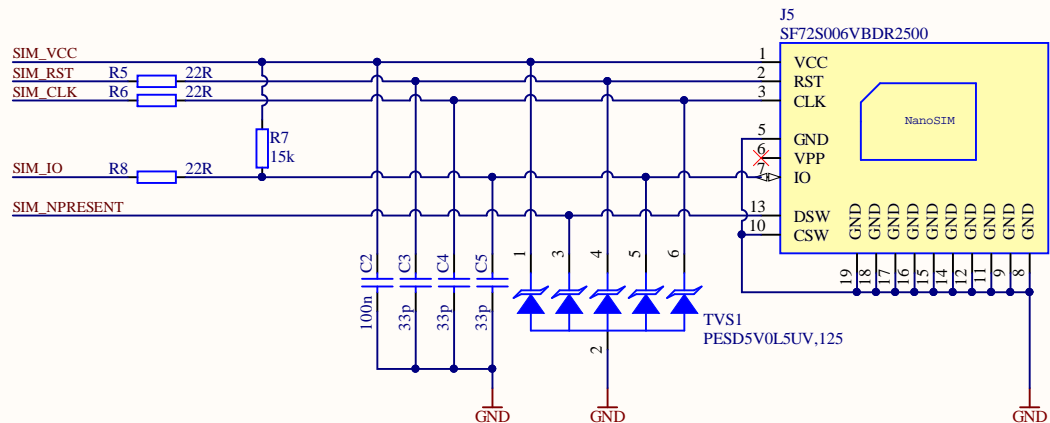
Title: 03_IO-CONNECTION.SchDoc		
Project: 100426_notecarrier-xs.PrjPCB		
Company: Byte Lab Grupa d.o.o.		Medarska 69/1, 10000 Zagreb, Croatia www.byte-lab.com
Author: M. Marsic	Acceptor: J. Wiedey	
Sheet 3 of 5	Rev: 11	Format: A4



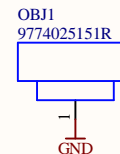
## Notecard Connector



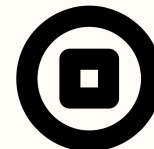
## SIM Card



## Notecard Support



Title: <b>04_NOTECARD-CONNECTION.SchDoc</b>		
Project: 100426_notecarrier-xs.PrjPCB		
Company: Byte Lab Grupa d.o.o.		Medarska 69/1, 10000 Zagreb, Croatia www.byte-lab.com
Author: M. Marsic	Acceptor: J. Wiedey	
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Battery Charger w/ Power Path

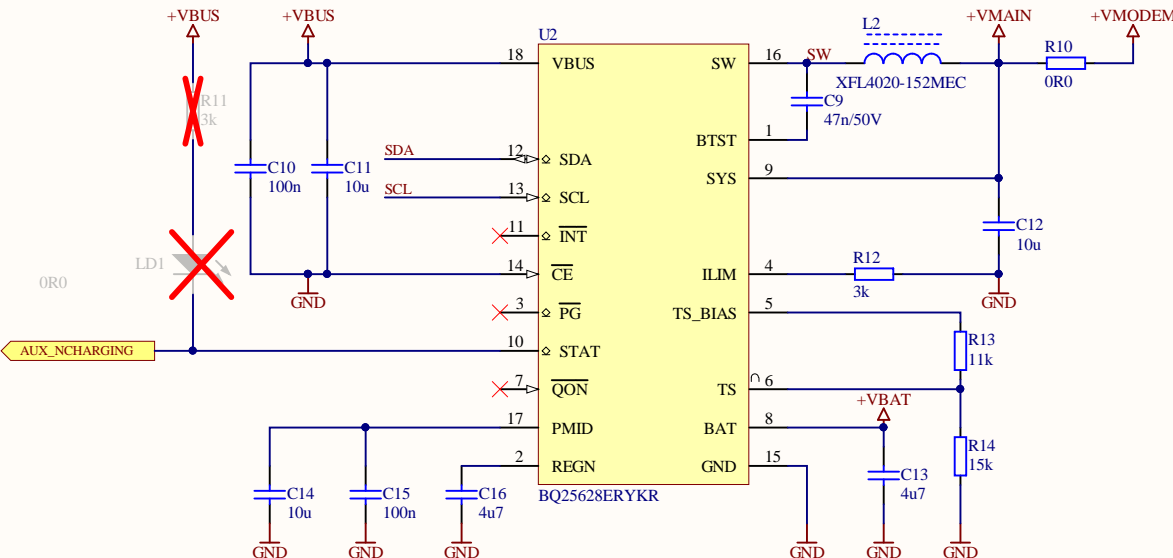
DESIGN NOTE:

Charger:  
- Default charging voltage: 4.2V  
- Default charging current: 320mA  
- Default termination current: 20mA  
- Default pre-charge current: 20mA  
- No battery thermal protection

DESIGN NOTE:

Power Path:  
- Input current limit: 3.5A  
- 26mOhm reverse blocking transistor  
- 15mOhm battery transistor

Buck Regulator:  
- 1.5MHz frequency  
- Input Voltage: 5V  
- Output Voltage: 3.3-4.2V  
- Peak current: 2.5A

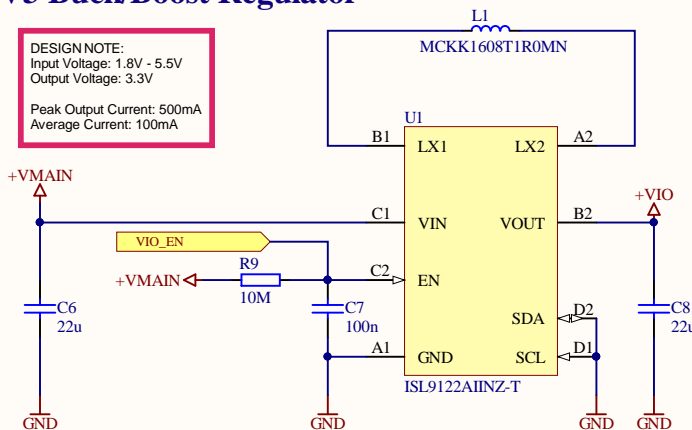


3V3 Buck/Boost Regulator

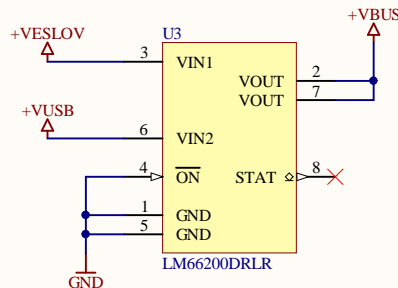
DESIGN NOTE:

Input Voltage: 1.8V - 5.5V  
Output Voltage: 3.3V

Peak Output Current: 500mA  
Average Current: 100mA



VBUS ORing



Title:  
05\_POWER.SchDoc

Project:  
100426\_notecarrier-xs.PrjPCB

Company:  
Byte Lab Grupa d.o.o.

Medarska 69/1, 10000 Zagreb, Croatia  
www.byte-lab.com

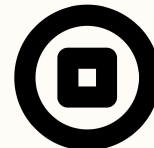
Author: M. Marsic

Acceptor: J. Wiedey

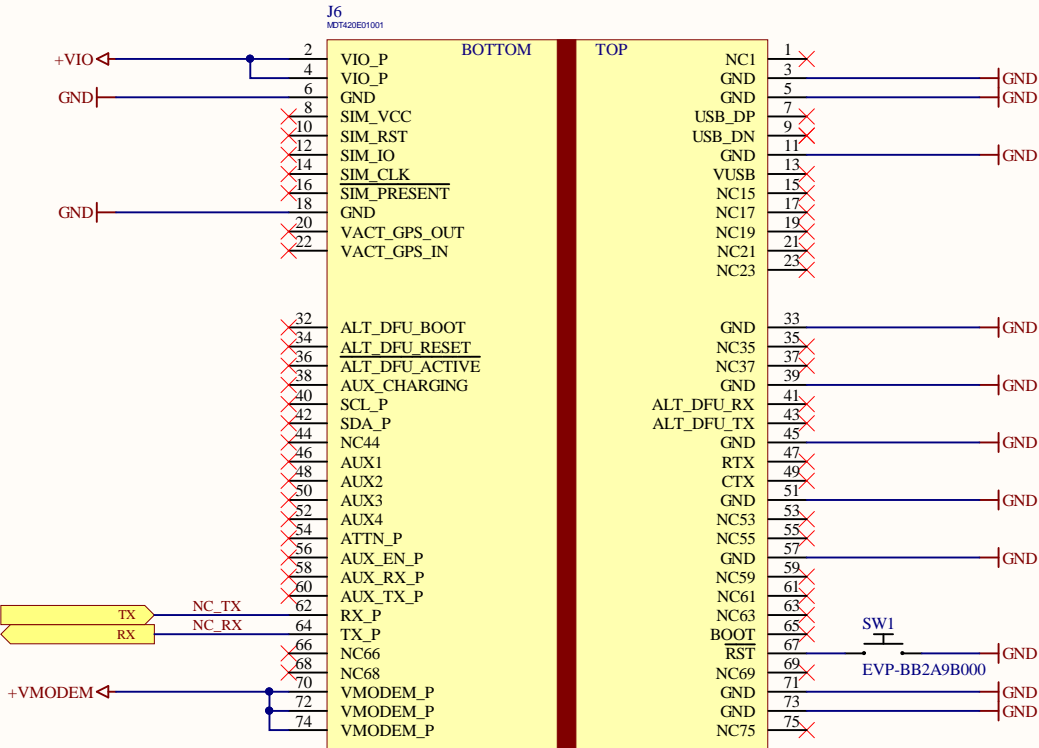
Sheet 5 of 5

Rev: 11

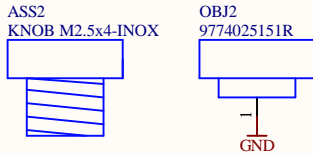
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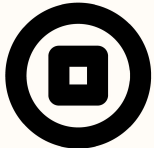
Starnote Connector



Starnote Support



Title: 06_STARNOTE-CONNECTION.SchDoc		
Project: 100426_notecarrier-xs.PrjPCB		
Company: Byte Lab Grupa d.o.o.		Medarska 69/1, 10000 Zagreb, Croatia www.byte-lab.com
Author: M. Marsic	Acceptor: J. Wiedey	
Sheet 6 of 6	Rev: 11	Format: A4



A

A

B

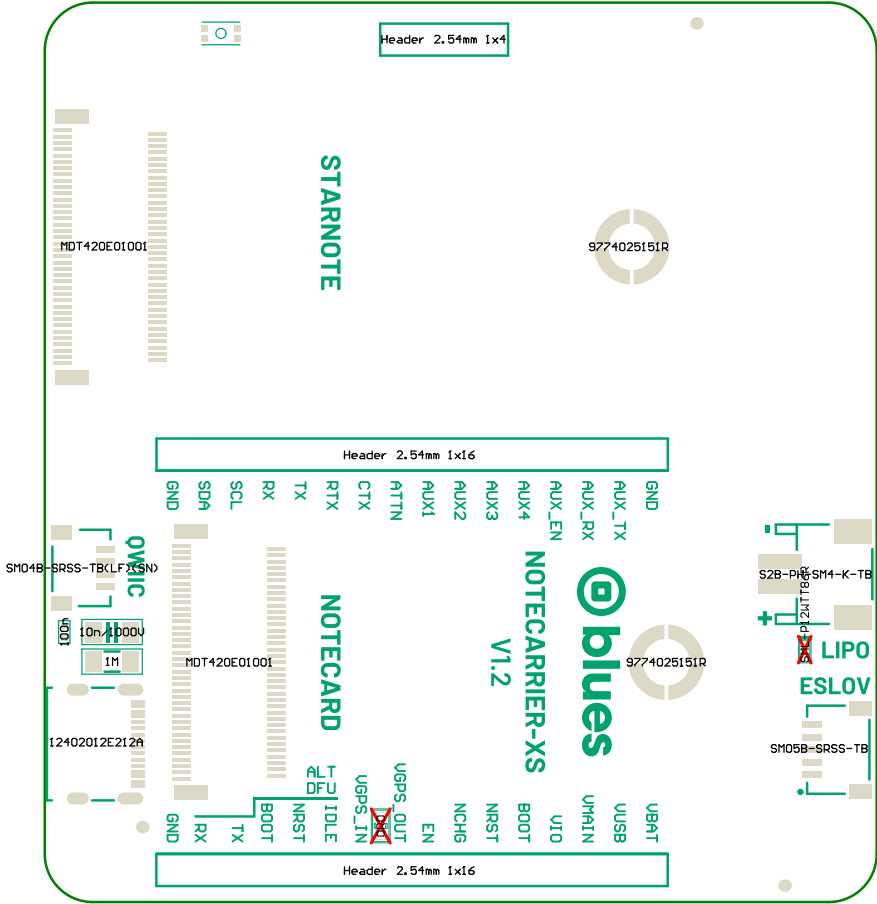
B

C

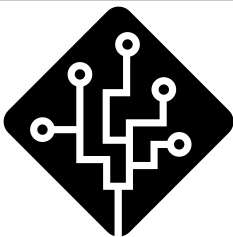
C

D

D



Mount pin headers on bottom!



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Croatia

	SIGNATURE	TITLE:  Assembly drawing comments - TOP
AUTHOR:	M. Marsic	
ACCEPTOR:	J. Wiedey	
		BOM NO.:  3000-789-002
DESIGN DOCUMENT NAME: 100426 Notecarrier-XS Rev. 11		FORMAT: A4

A

A

B

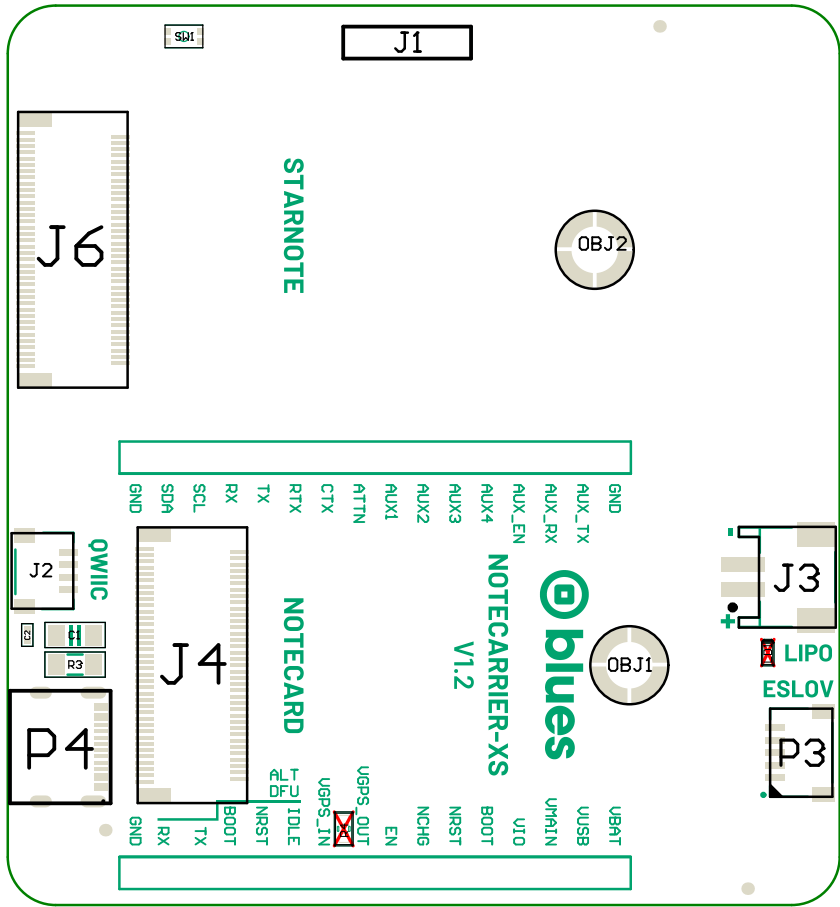
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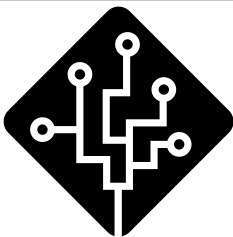
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D

D



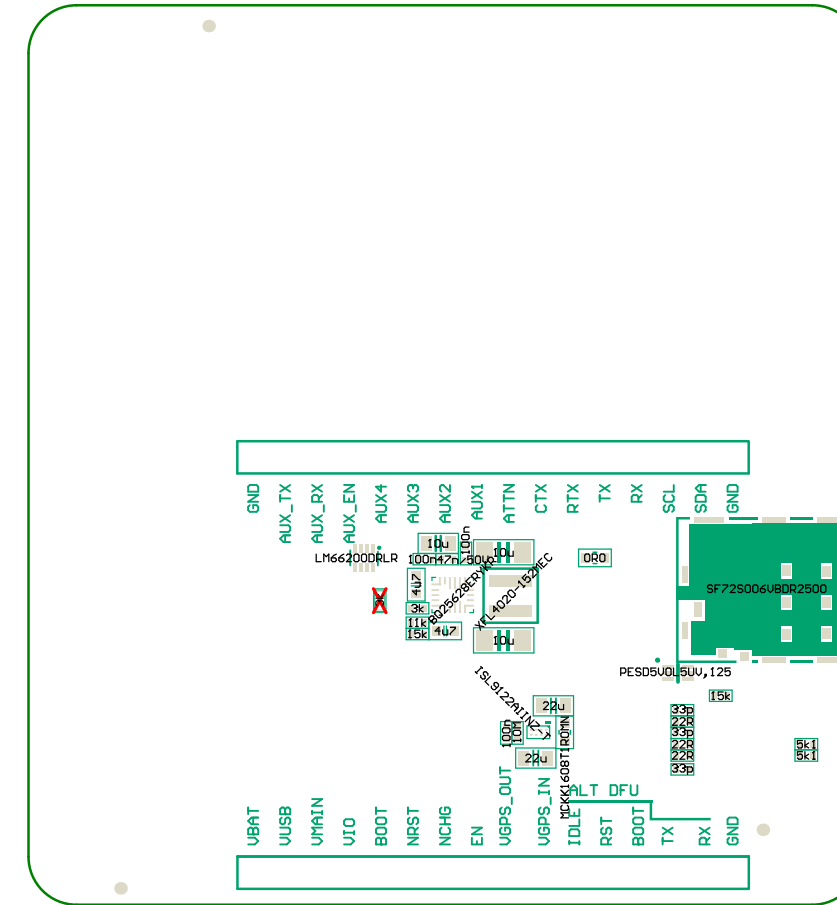
Mount pin headers on bottom!



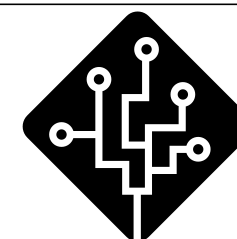
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Medarska 69/1  
10000 Zagreb  
Croatia

AUTHOR: ACCEPTOR:	SIGNATURE <b>M. Marsic</b> <b>J. Wiedey</b>	TITLE: <b>Assembly drawing designators - TOP</b>	
		BOM NO.: <b>3000-789-002</b>	
DESIGN DOCUMENT NAME: <b>100426 Notecarrier-XS Rev. 11</b>			FORMAT: <b>A4</b>



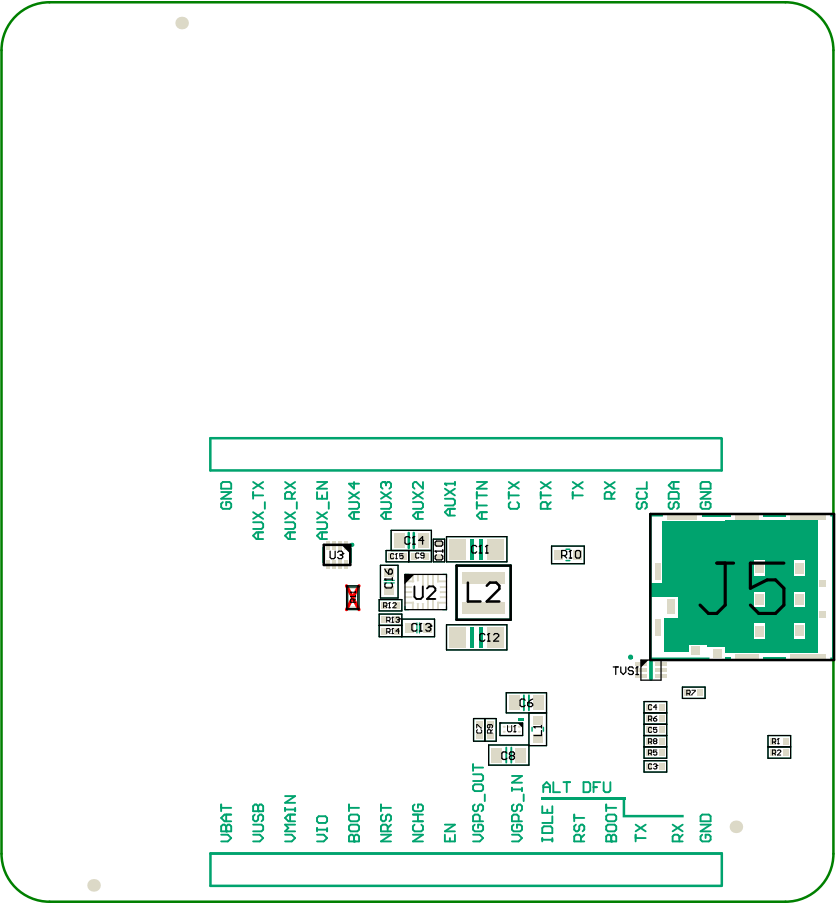


Mount pin headers on bottom!

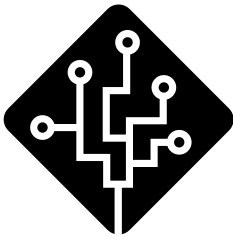


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10000 Zagreb  
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	SIGNATURE	TITLE:  <b>Assembly drawing comments - BOTTOM</b>
AUTHOR:	<b>M. Marsic</b>	
ACCEPTOR:	<b>J. Wiedey</b>	
		BOM NO.: <b>3000-789-002</b>
DESIGN DOCUMENT NAME: <b>100426 Notecarrier-XS Rev. 11</b>		FORMAT: <b>A4</b>



Mount pin headers on bottom!



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	SIGNATURE	TITLE:  Assembly drawing designators - BOTTOM
AUTHOR:	M. Marsic	
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