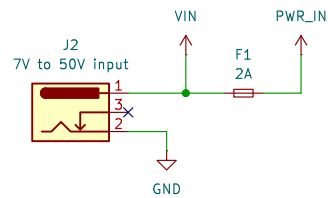
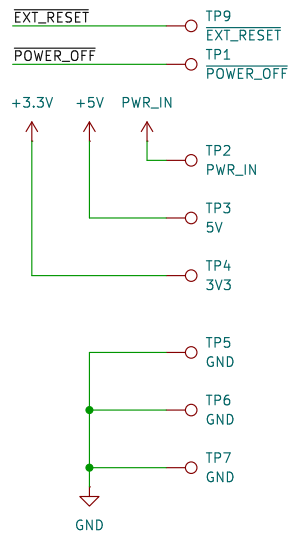


## Optional DC jack

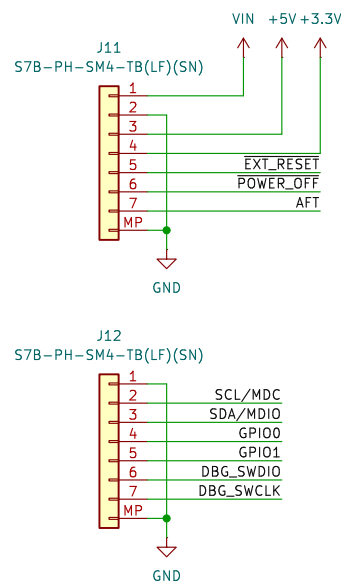


Note:  
Input voltage range: 7 V to 50 V

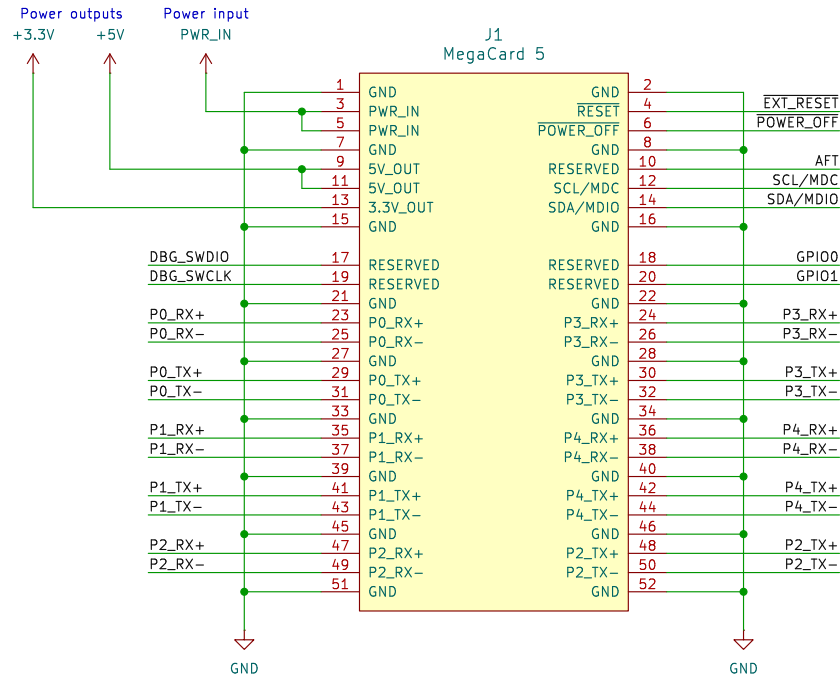
## Optional test hooks



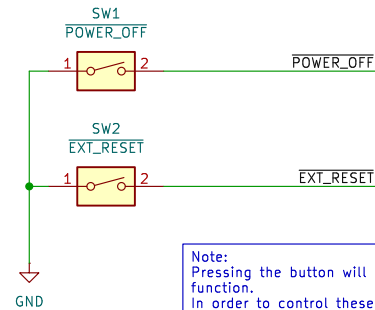
## Optional debugging connectors



## MegaCard 5 module

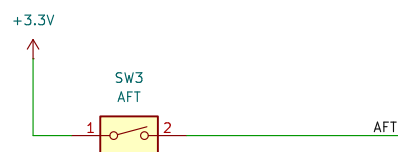


## Optional POWER\_OFF and RESET buttons



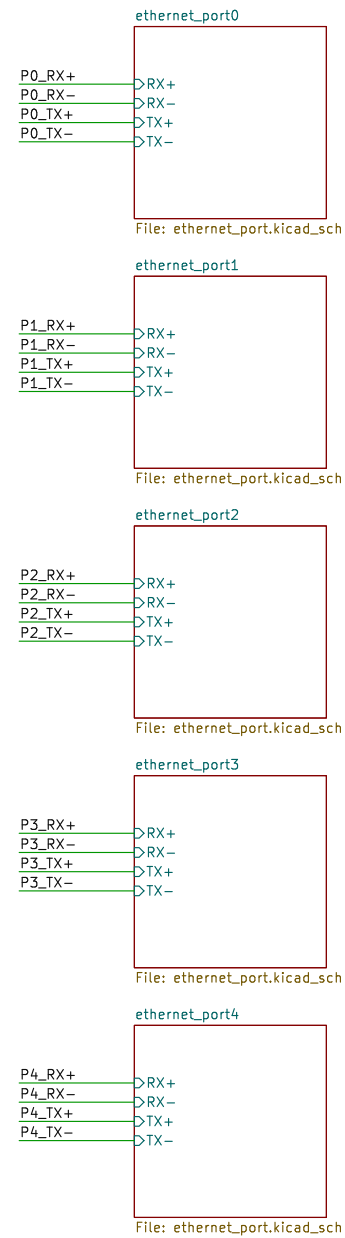
Note:  
Pressing the button will activate the associated function.  
In order to control these functions via an external MCU or circuit, an open drain MOSFET can be used instead of the button.

## Optional AFT button



Note:  
Pressing this button enables the "Auto Factory Test" mode.  
It is used during the QA process after manufacturing.

## Ethernet connectors



## Mechanical



Note:  
The screws are configured such that they appear in the BOM but not on the PCB.  
In case you use a different SMT solder nut, you may need to edit the MegaCard 5 footprint.

## Mounting holes for PCB



Wilhelm Zeuschner

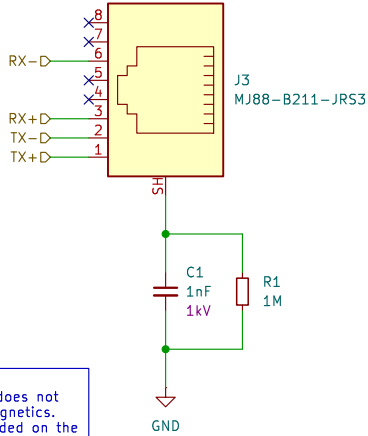
Sheet: /  
File: megacard5\_reference\_design.kicad\_sch

Title: **MegaCard 5 Carrier Board Reference Design**

Size: A3 Date: 2024-10-26  
KiCad E.D.A. 8.0.6

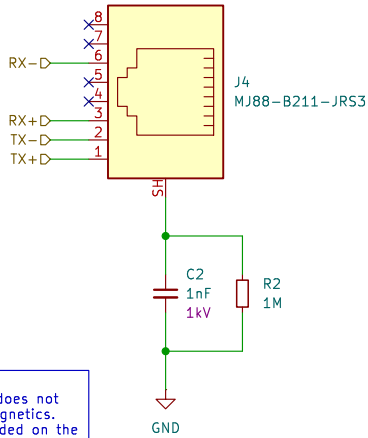
Rev: 1.1  
Id: 1/6

100 Mbit/s ethernet port



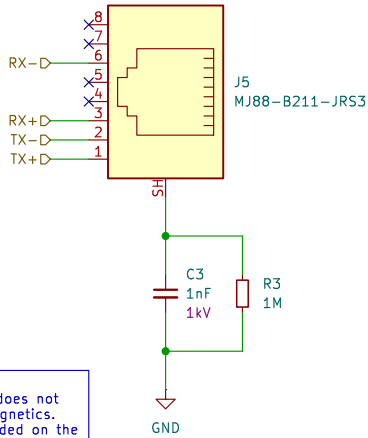
Note:  
The connector does not  
contain any magnetics.  
These are included on the  
MegaCard 5 PCB.

100 Mbit/s ethernet port



Note:  
The connector does not  
contain any magnetics.  
These are included on the  
MegaCard 5 PCB.

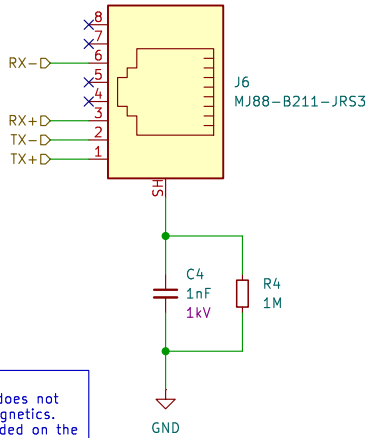
100 Mbit/s ethernet port



Note:  
The connector does not  
contain any magnetics.  
These are included on the  
MegaCard 5 PCB.

Wilhelm Zeuschner		
Sheet: /ethernet_port2/		
File: ethernet_port.kicad_sch		
Title: Ethernet port		
Size: A4	Date: 2024-10-26	Rev: 1.1
KiCad E.D.A. 8.0.6	Id: 4/6	

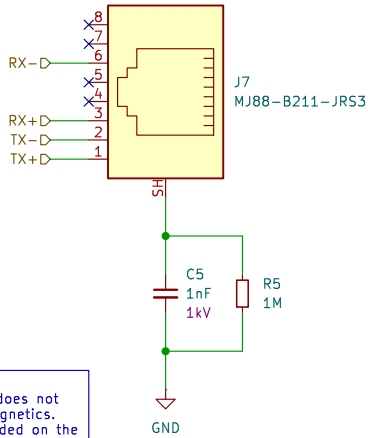
100 Mbit/s ethernet port



Note:  
The connector does not  
contain any magnetics.  
These are included on the  
MegaCard 5 PCB.

Wilhelm Zeuschner		
Sheet: /ethernet_port3/		
File: ethernet_port.kicad_sch		
Title: Ethernet port		
Size: A4	Date: 2024-10-26	Rev: 1.1
KiCad E.D.A. 8.0.6	Id: 5/6	

100 Mbit/s ethernet port



Note:  
The connector does not  
contain any magnetics.  
These are included on the  
MegaCard 5 PCB.

Wilhelm Zeuschner		
Sheet: /ethernet_port4/		
File: ethernet_port.kicad_sch		
Title: Ethernet port		
Size: A4	Date: 2024-10-26	Rev: 1.1
KiCad E.D.A. 8.0.6	Id: 6/6	