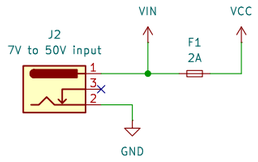
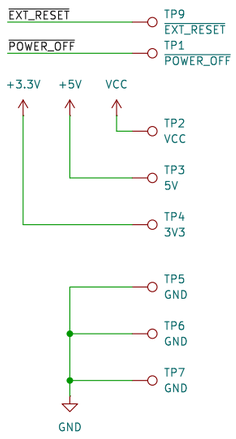
Optional DC jack

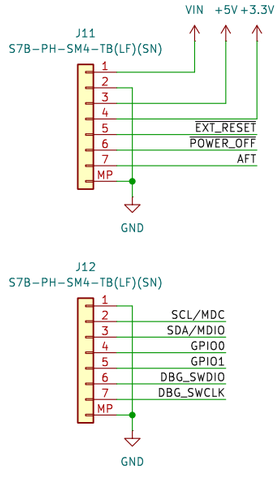


Note:
Input voltage range: 7 V to 50 V

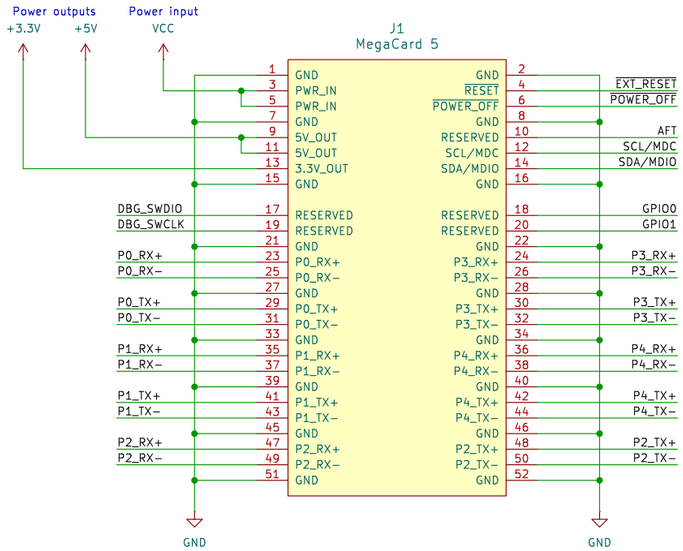
Optional test hooks



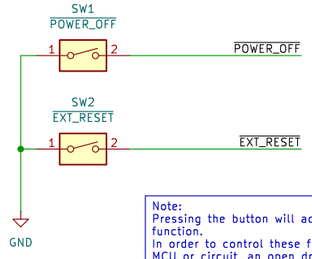
Optional debugging connectors



MegaCard 5 module

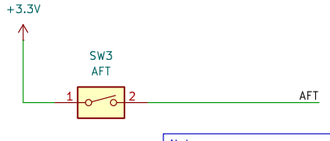


Optional $\overline{\text{POWER\_OFF}}$ and $\overline{\text{RESET}}$ buttons



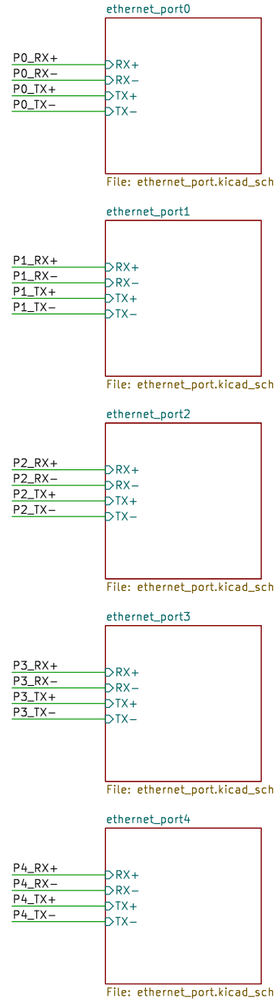
Note:
Pressing the button will activate the associated function.
In order to control these funtions via an external MCU or circuit, an open drain MOSFET can be used instead of the button.

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

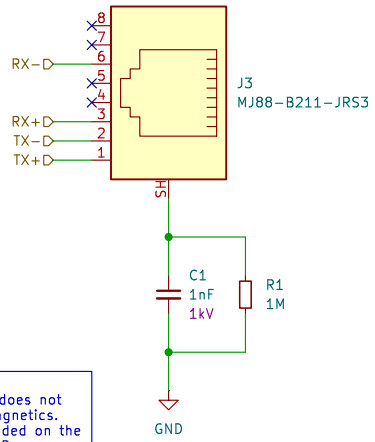
Wilhelm Zeuschner

Sheet: /
File: megacard5_reference_design.kicad_sch

Title: MegaCard 5 Carrier Board Reference Design

Size: A3	Date: 2024-10-26	**Rev: 1.1**
KiCad E.D.A. 8.0.6		Id: 1/6

100 Mbit/s ethernet port



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

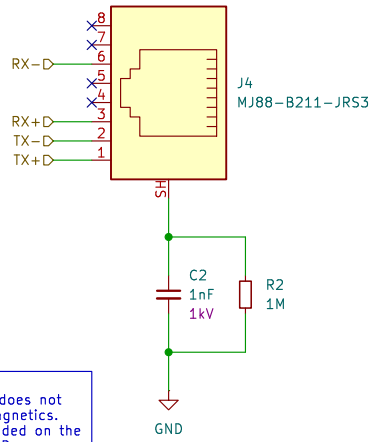
Wilhelm Zeuschner

Sheet: /ethernet_port0/
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: 2/6

100 Mbit/s ethernet port



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

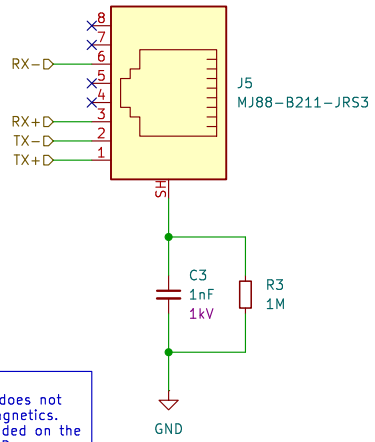
Wilhelm Zeuschner

Sheet: /ethernet_port1/
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: 3/6

100 Mbit/s ethernet port



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

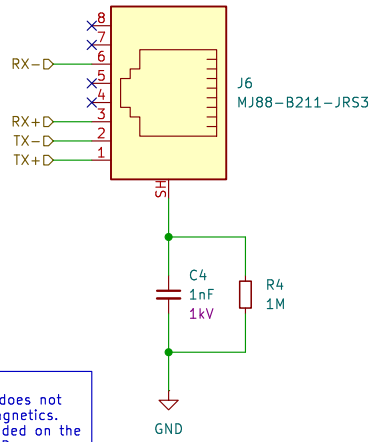
Wilhelm Zeuschner

Sheet: /ethernet_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.

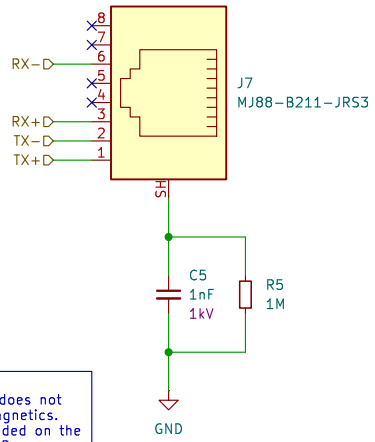
Wilhelm Zeuschner

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