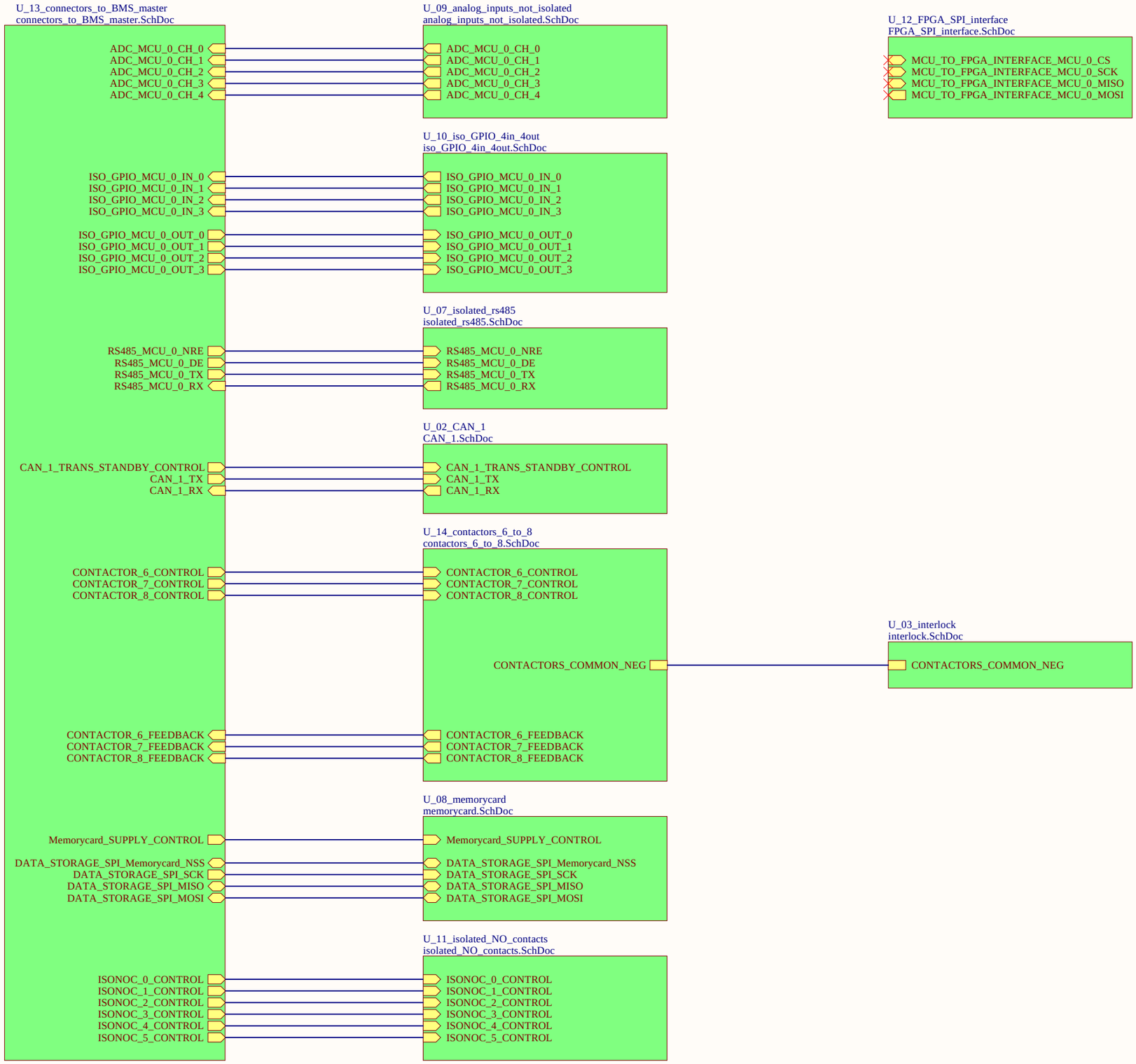
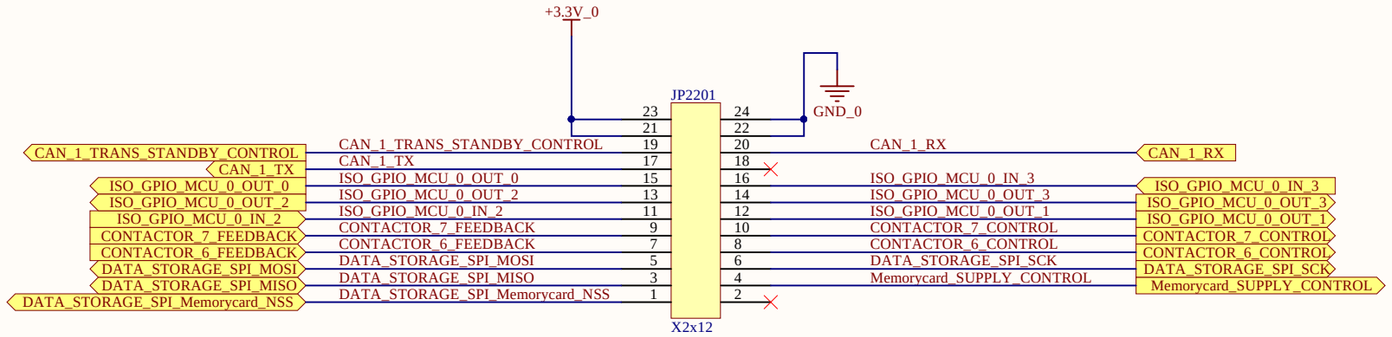
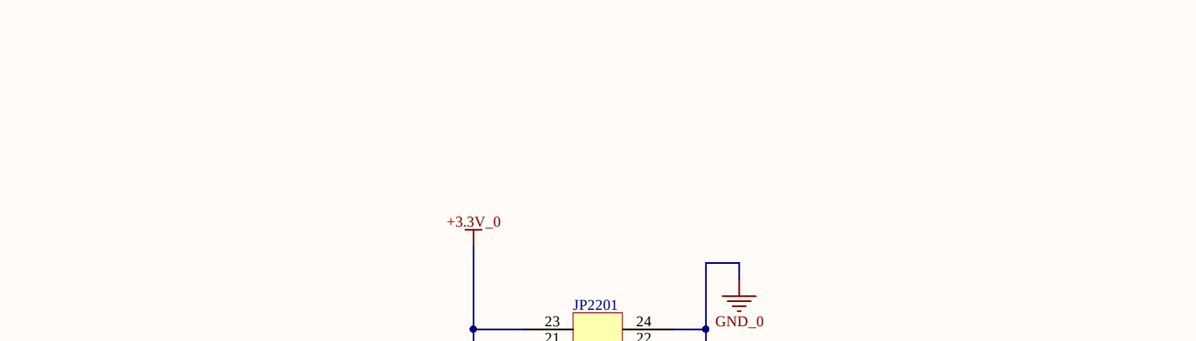
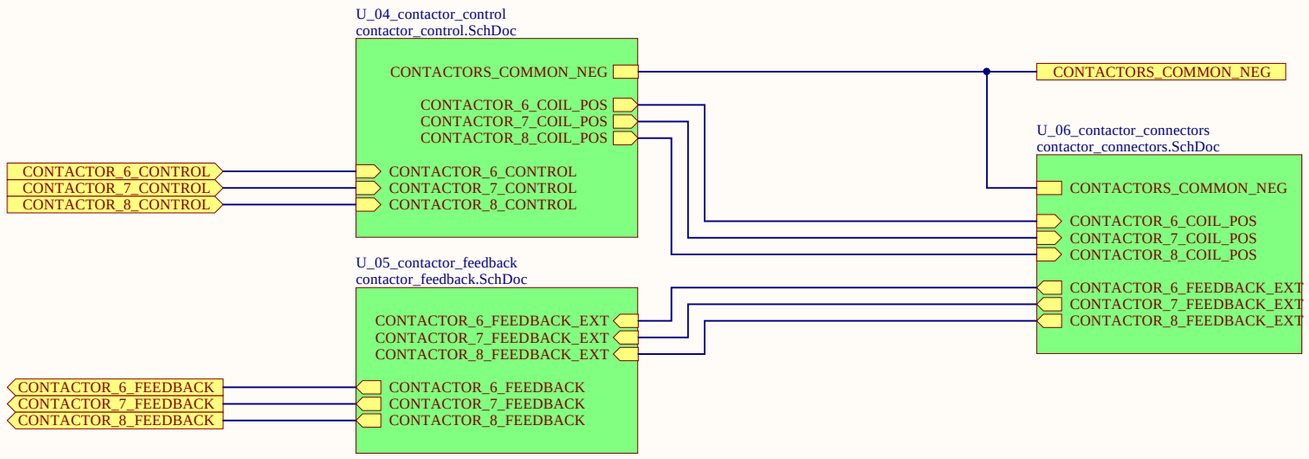


www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Structure of Extension	File: hierarchy.SchDoc		
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5	Release Date: 2018-10-25	Sheet: 1 / 14





www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Connectors to BMS-Master	File: connectors_to_BMS_master.SchDoc
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5 / Release Date: 2018-10-25 / Sheet: 2 / 14



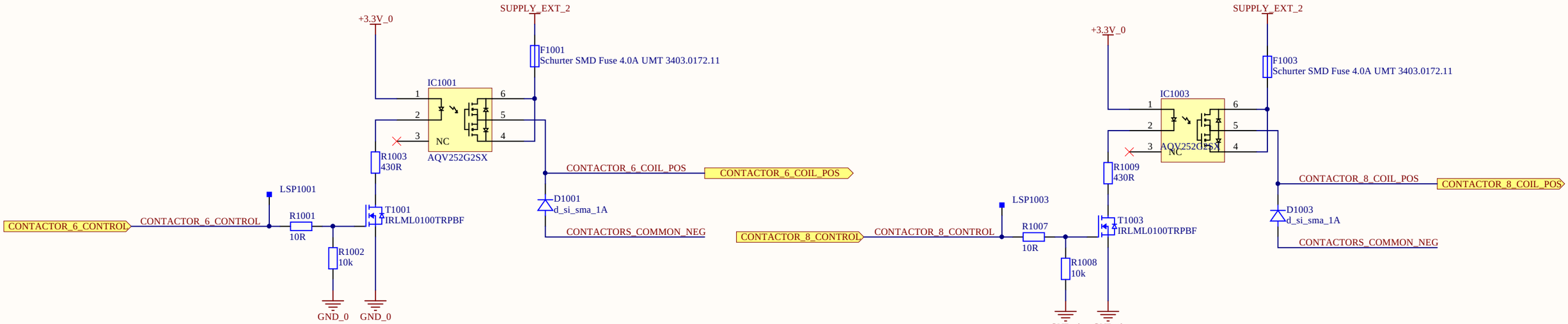
www.foxbms.org

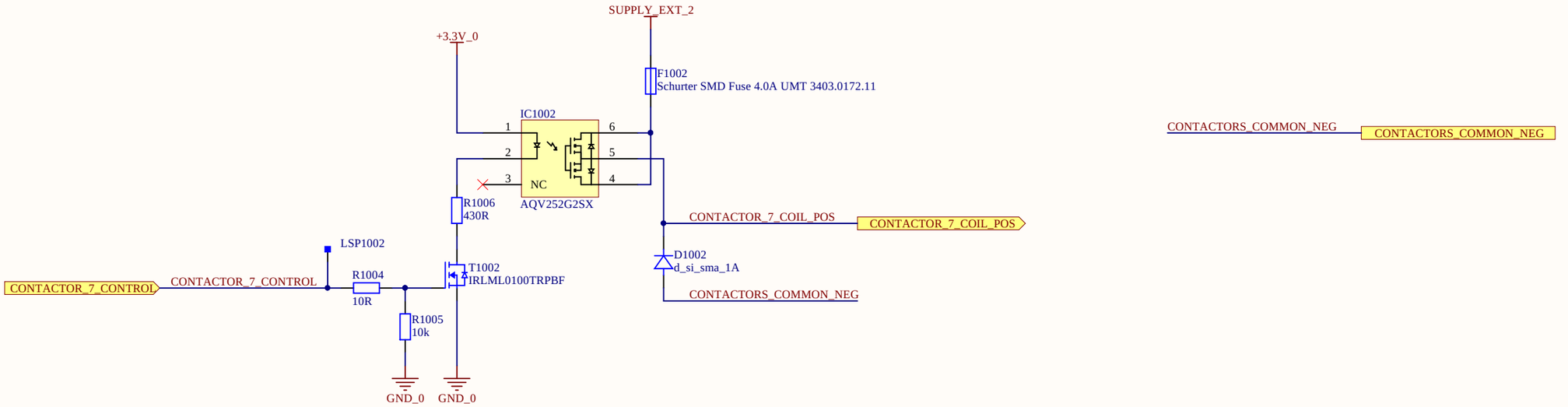
developed by:

Fraunhofer IISB
Schottkystr. 10
91058 Erlangen
Germany

www.iisb.fraunhofer.de

Project	Description	File		
foxBMS BMS-Extension	Contactors 6-8	contactors_6_to_8.SchDoc		
Author	License	Version	Release Date	Sheet
foxBMS Team	Creative Commons Attribution 4.0	1.0.5	2018-10-25	3 / 14

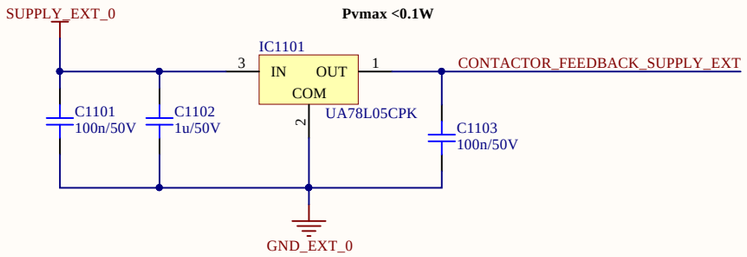


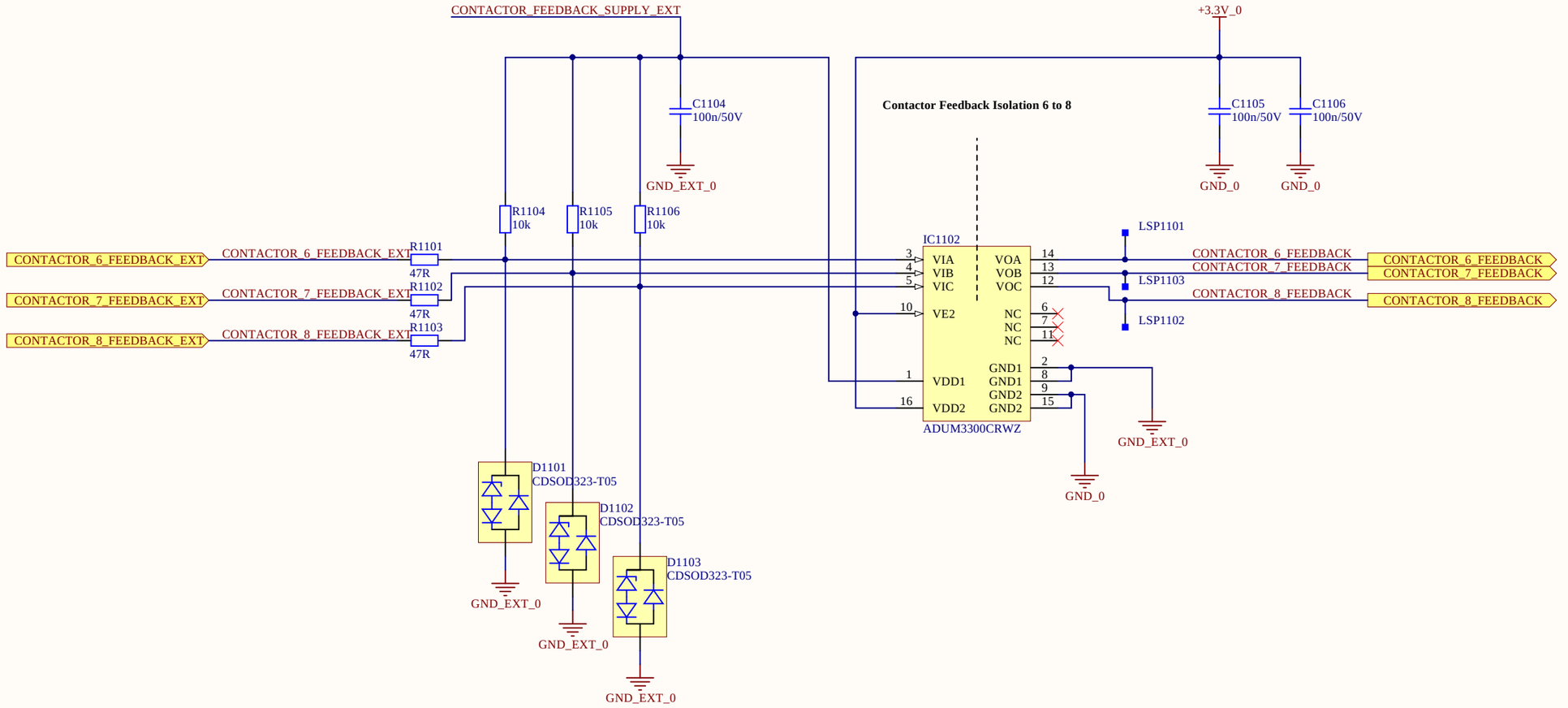


www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Contactor Control
			Author: foxBMS Team	License: Creative Commons Attribution 4.0

File	Version	Release Date	Sheet
contactor_control.SchDoc	1.0.5	2018-10-25	4 / 14

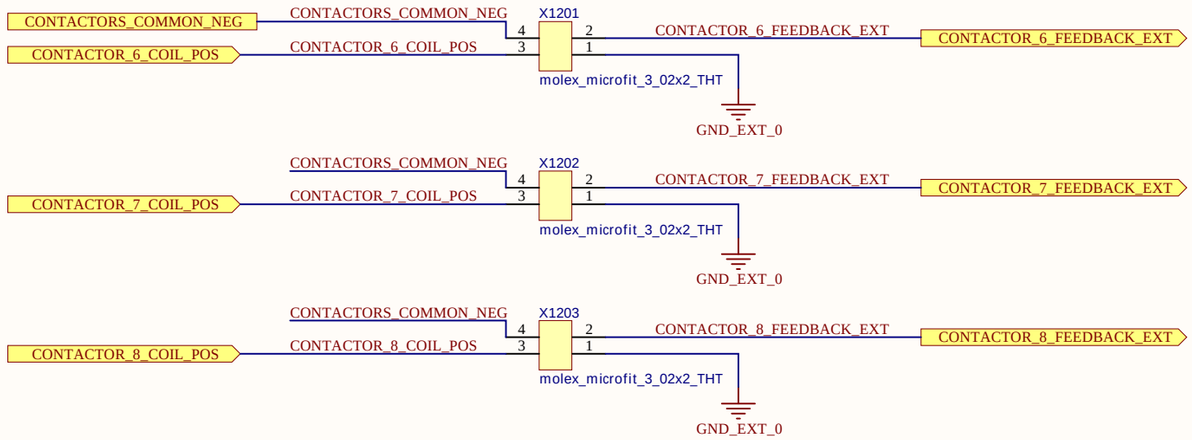
Contactor Feedback Supply from External Supply





foxBMS www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	Fraunhofer IISB www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Contactor Feedback	File: contactor_feedback.SchDoc		
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5	Release Date: 2018-10-25	Sheet: 5 / 14

One connector for each contactor:
- Coil supply
- Feedback contact



www.foxbms.org

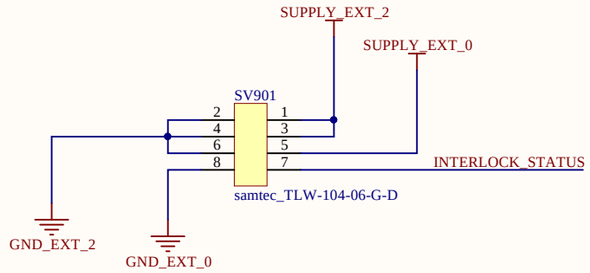
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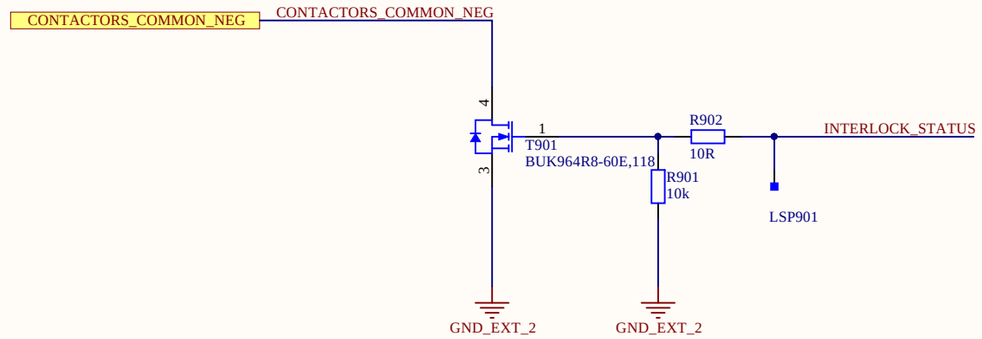
Fraunhofer IISB
Schottkystr. 10
91058 Erlangen
Germany

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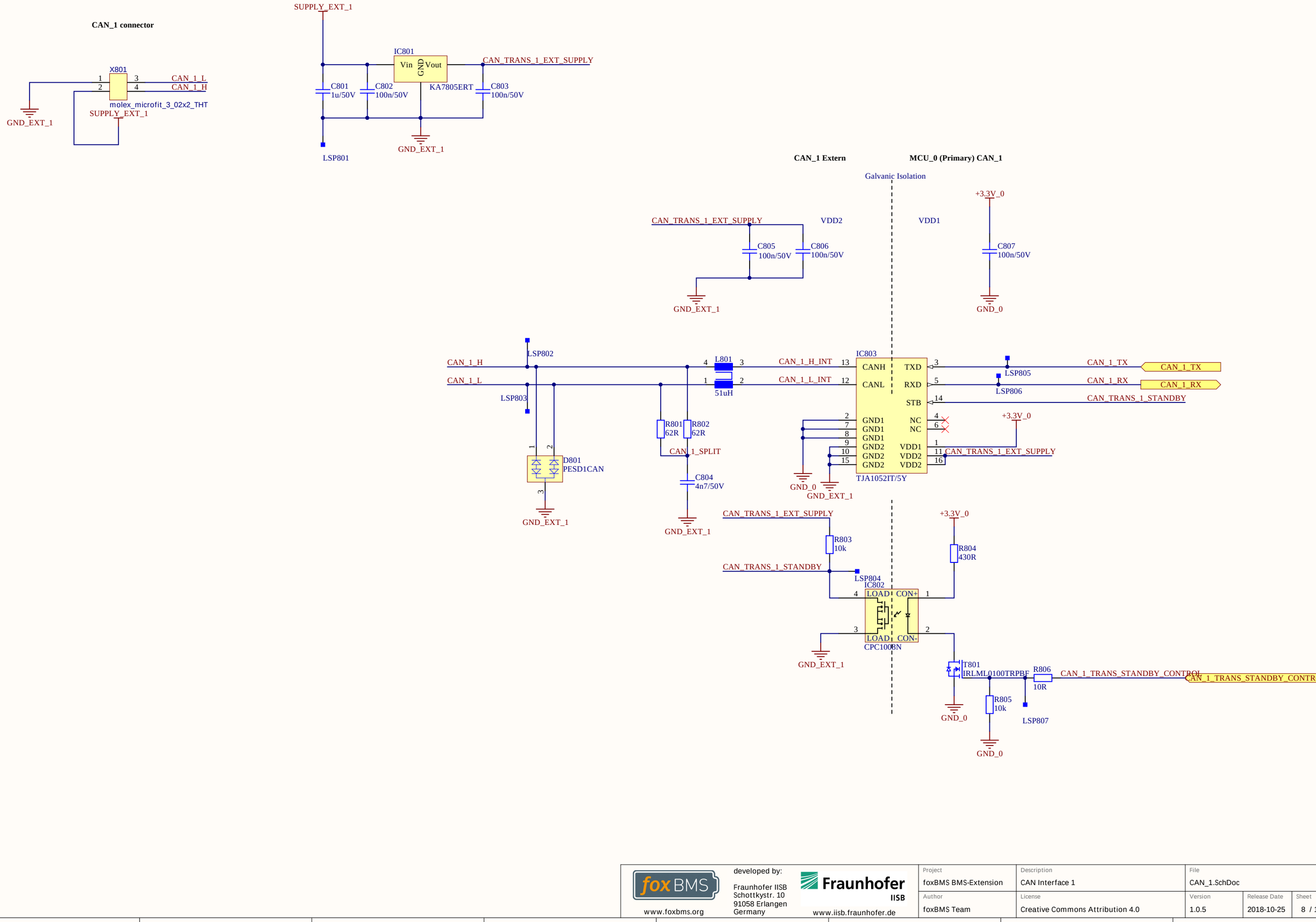
Project	Description	File		
foxBMS BMS-Extension	Contactor Connectors	contactor_connectors.SchDoc		
Author	License	Version	Release Date	Sheet
foxBMS Team	Creative Commons Attribution 4.0	1.0.5	2018-10-25	6 / 14

Connector from foxBMS Basic Board

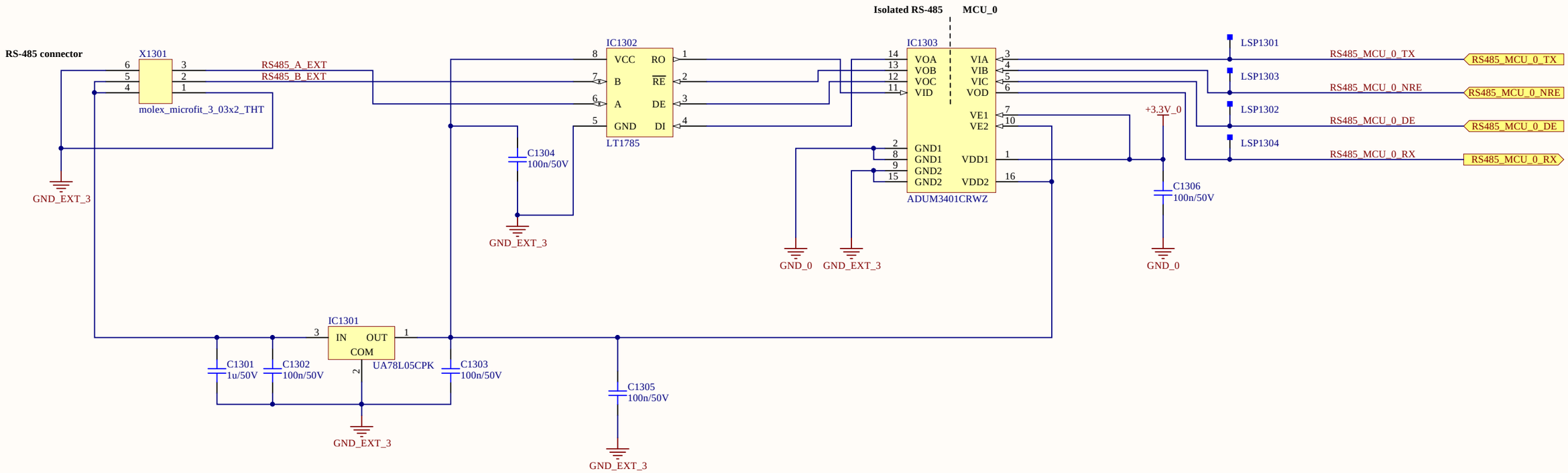




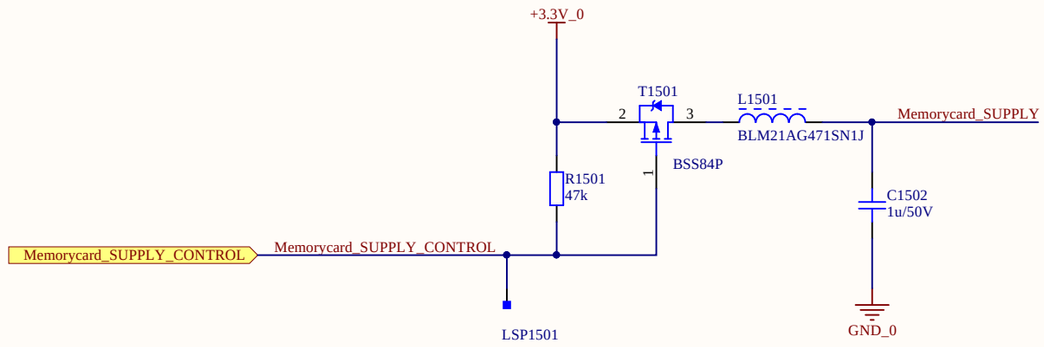
www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Interlock Circuit	File: interlock.SchDoc
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5 / Release Date: 2018-10-25 / Sheet: 7 / 14

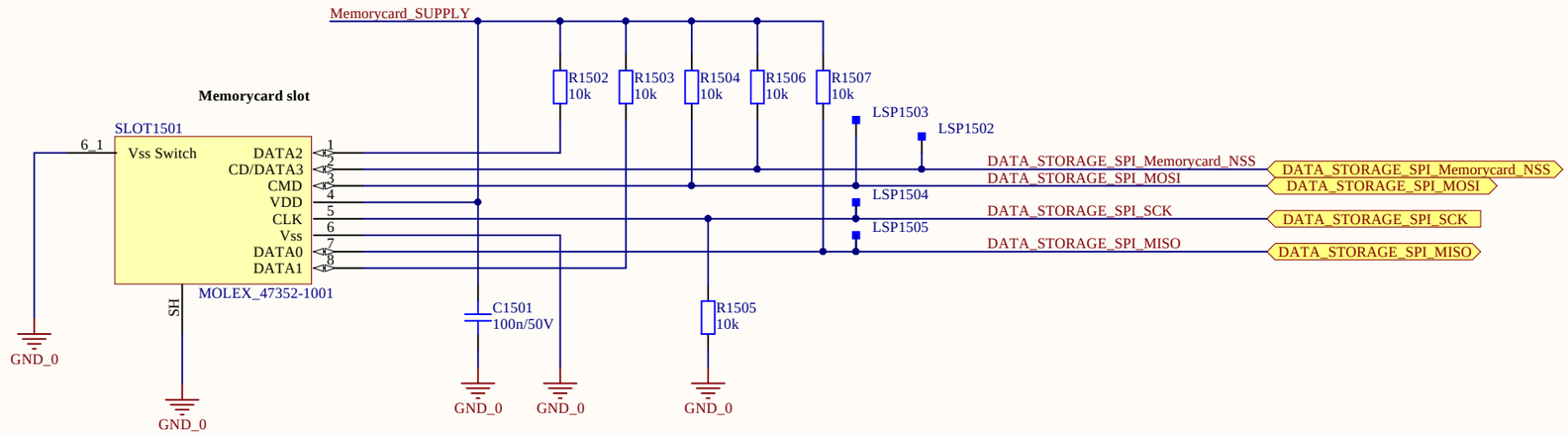


foxBMS www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	Fraunhofer IISB www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: CAN Interface 1	File: CAN_1.SchDoc
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5 / Release Date: 2018-10-25 / Sheet: 8 / 14

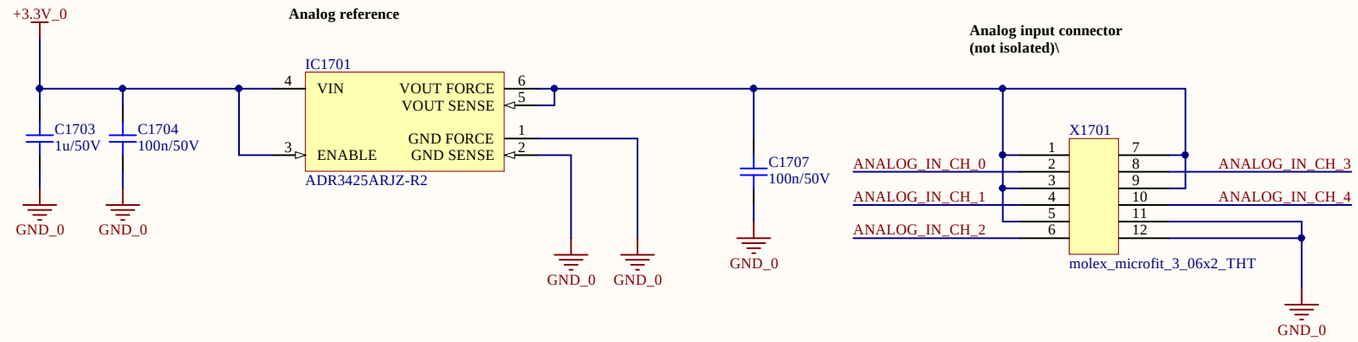


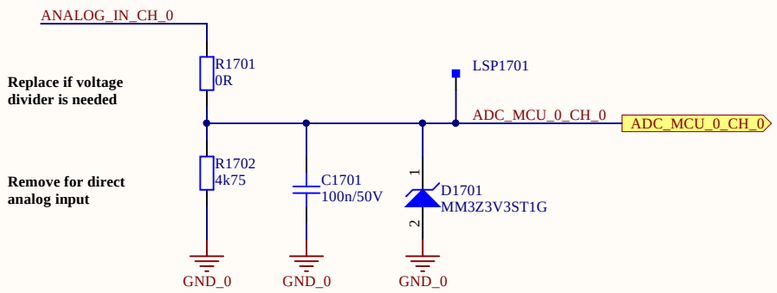
www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Isolated RS485	File: isolated_rs485.SchDoc		
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5	Release Date: 2018-10-25	Sheet: 9 / 14

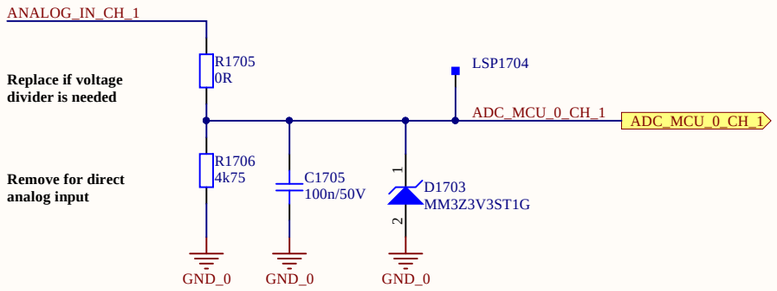


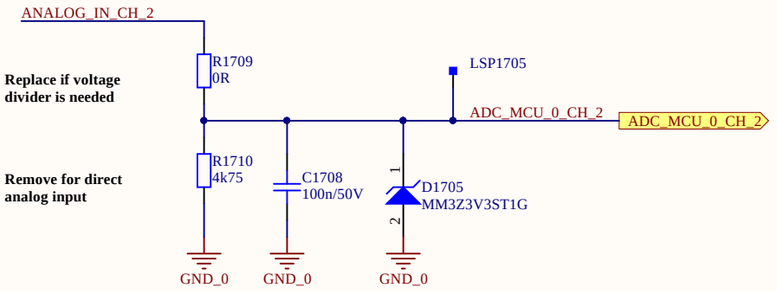


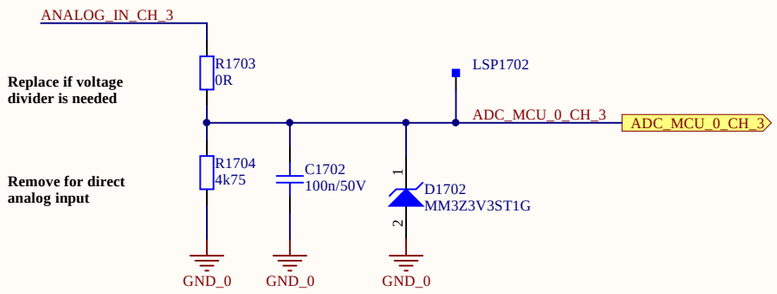
www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Memorycard	File: memorycard.SchDoc
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5 / Release Date: 2018-10-25 / Sheet: 10 / 14

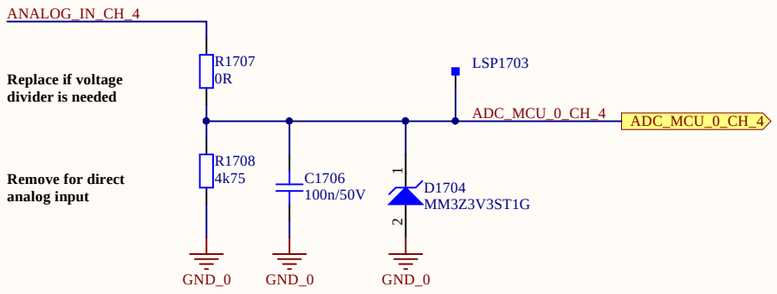






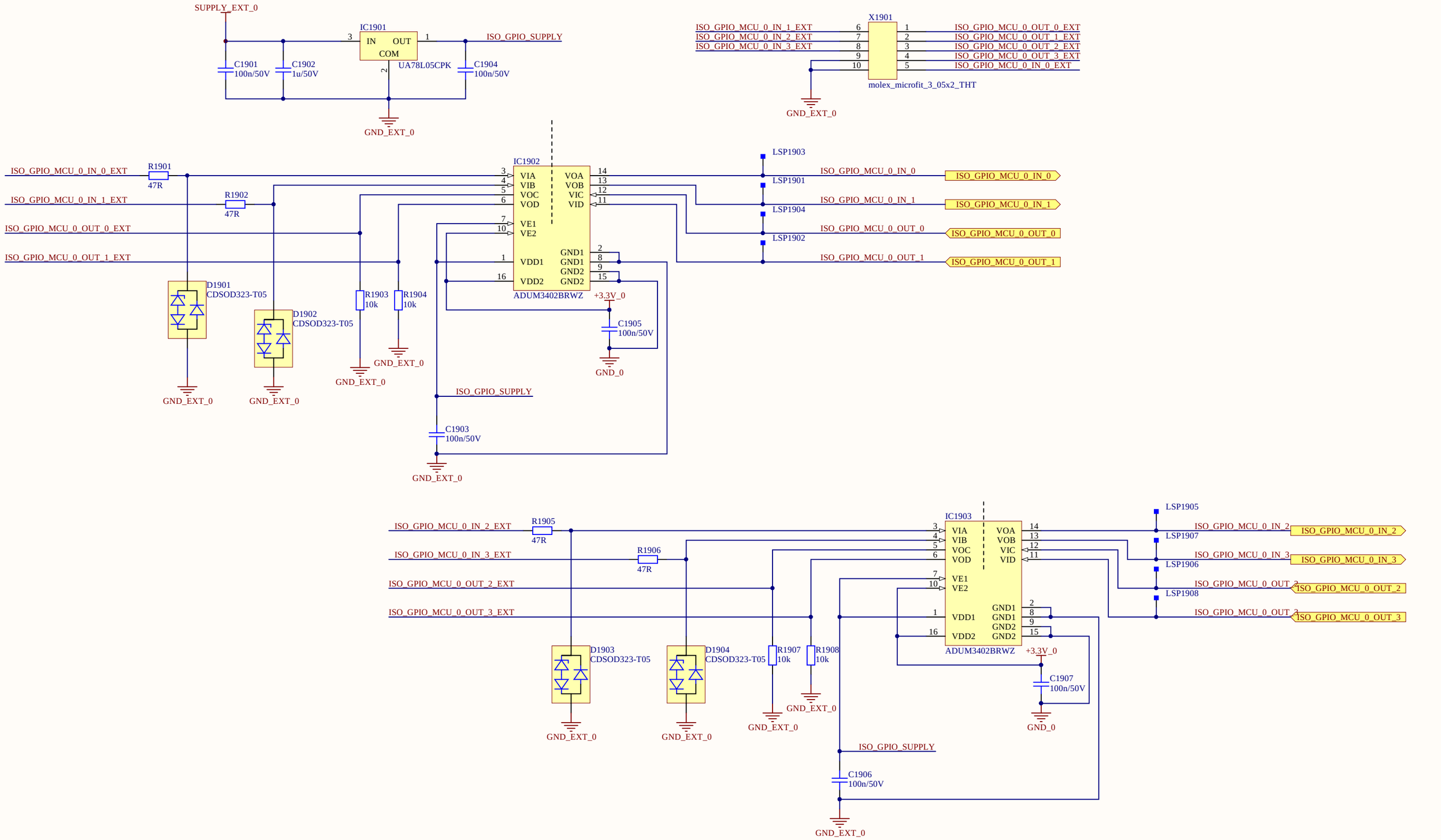




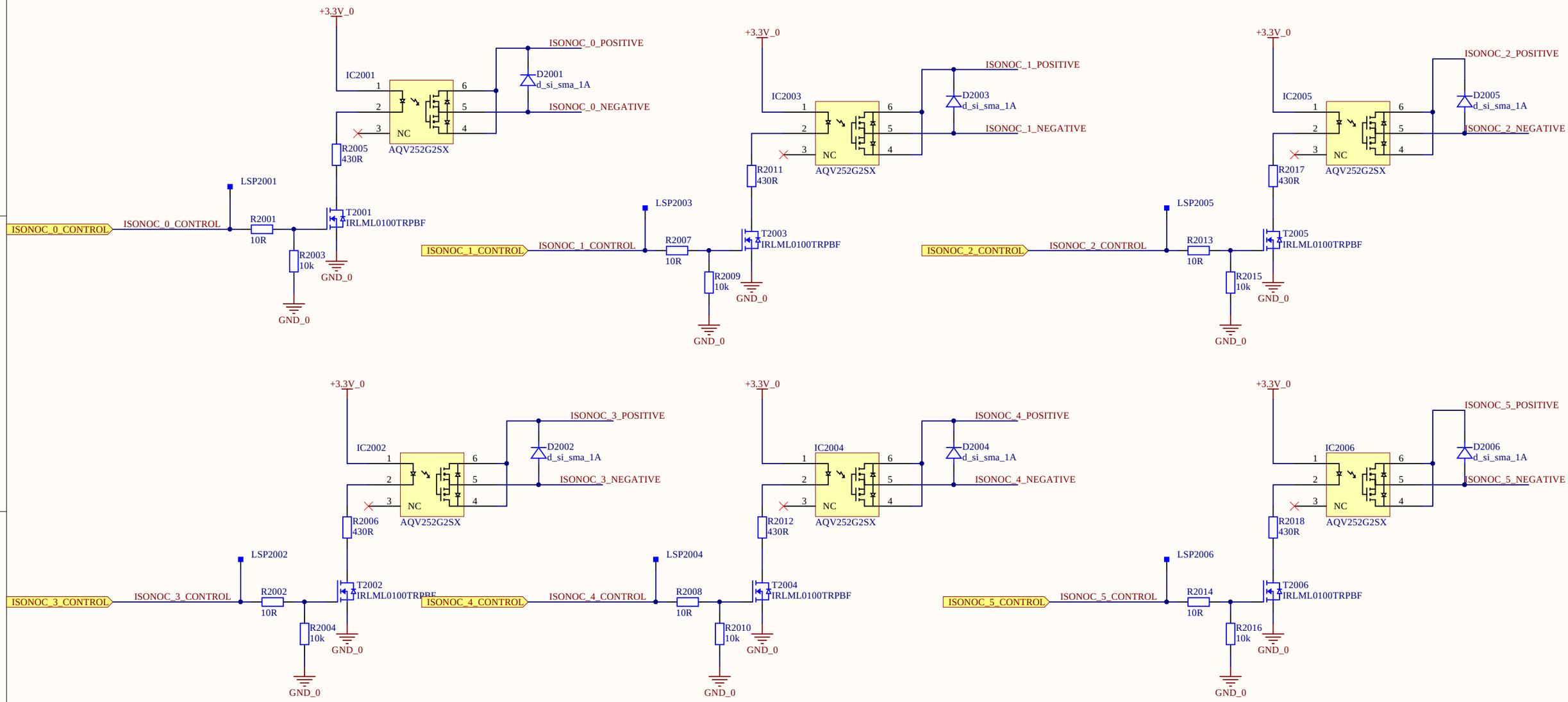


www.foxbms.org	developed by: Fraunhofer IISB Schottkystr. 10 91058 Erlangen Germany	www.iisb.fraunhofer.de	Project: foxBMS BMS-Extension	Description: Analog Inputs (not isolated)	File: analog_inputs_not_isolated.SchDoc
			Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5 / Release Date: 2018-10-25 / Sheet: 11 / 14

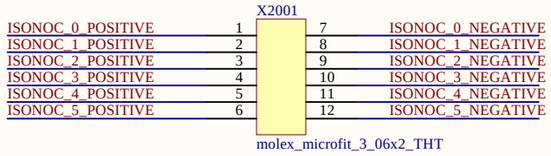
Isolated GPIO connector



developed by: Fraunhofer IISB, Schottkystr. 10, 91058 Erlangen, Germany	Project: foxBMS BMS-Extension	Description: Isolated GPIO 4x In / 4x Out	File: iso_GPIO_4in_4out.SchDoc		
www.foxbms.org / www.iisb.fraunhofer.de	Author: foxBMS Team	License: Creative Commons Attribution 4.0	Version: 1.0.5	Release Date: 2018-10-25	Sheet: 12 / 14



Isolated normally open contacts connector



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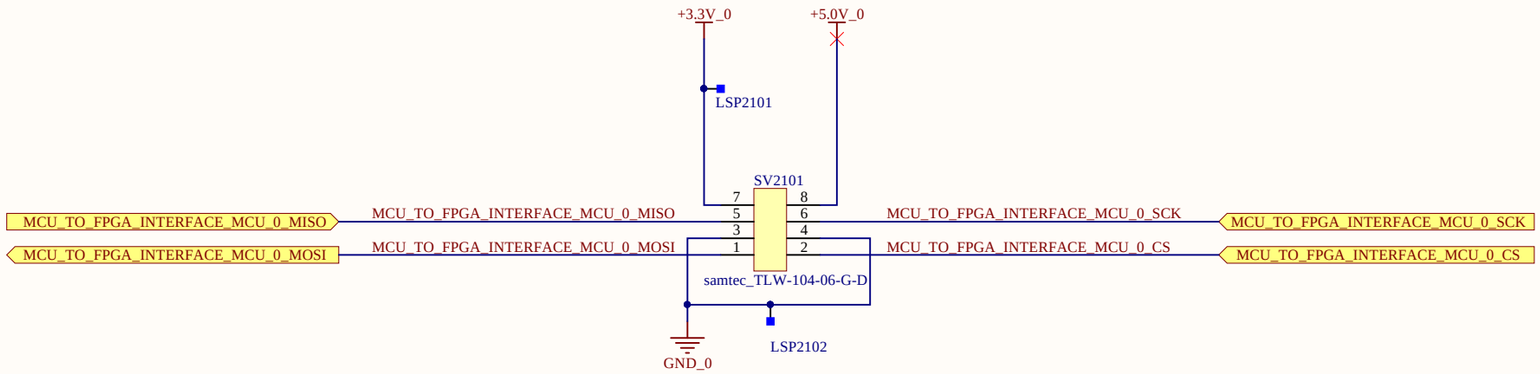
Fraunhofer IISB
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91058 Erlangen
Germany

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ISONOC = Isolated Normally Open Contact

Project	Description	File		
foxBMS BMS-Extension	Isolated Normally Open Contacts	isolated_NO_contacts.SchDoc		
Author	License	Version	Release Date	Sheet
foxBMS Team	Creative Commons Attribution 4.0	1.0.5	2018-10-25	13 / 14

Connector for optional FPGA extension board



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Project	Description	File		
foxBMS BMS-Extension	FPGA SPI Interface up to 45MHz	FPGA_SPI_interface.SchDoc		
Author	License	Version	Release Date	Sheet
foxBMS Team	Creative Commons Attribution 4.0	1.0.5	2018-10-25	14 / 14