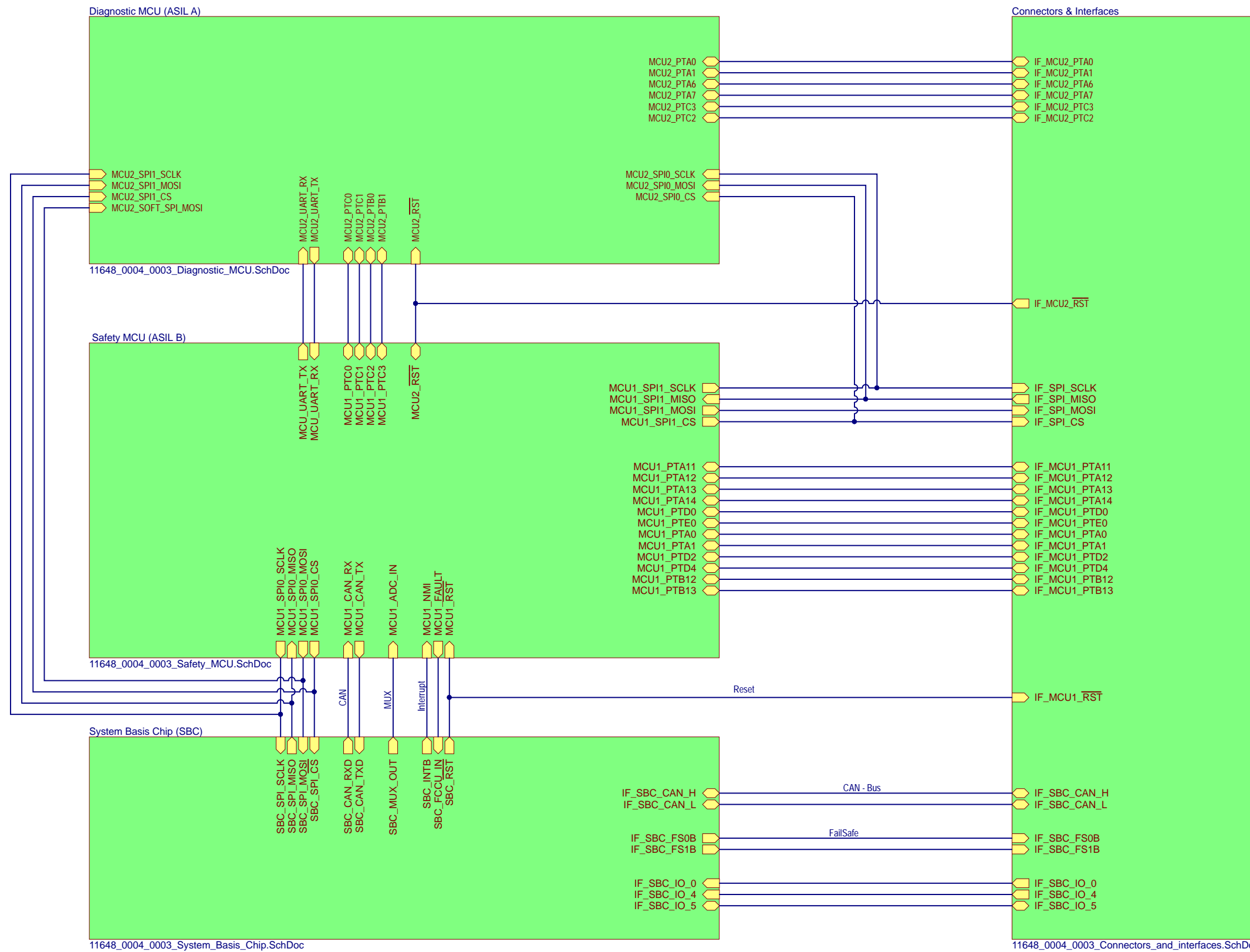


Änderungen

Revison	Beschreibung der Änderung	Datum	Name
V 0.1	Initial Revision	2018-01-30	ASH
V 1.0	<p>Pinout of the resetbutton corrected;</p> <p>Itemnumber of the Resistors with suitable package and suitable rated power added;</p> <p>Spelling mistake in the Itemnumber of the coil corrected;</p> <p>Decoupling capacitor C01 for the buck boost converter (V1) added;</p> <p>Pull-up for the NMI of the Safety MCU (Pin 70) added;</p> <p>LED circuit for the LEDs H4 & H5 adapt to the open-dran output pins 23 & 24 of the diag. MCU;</p> <p>RC - filter for the reset pin (pin 31) of the diag. MCU added;</p> <p>UART pins of the Safety MCU (pin 72,73) equiped with pin header;</p> <p>Pull - down for the UART RX input pin of the Safety MCU (pin 73) added.</p> <p>Testpointnames TP16 / TP20 extended with corresponding voltages;</p> <p>Pin 43 of the System Basis Chip: Pinname changed from "VCCA" to "VDDA";</p> <p>Pin 42 of the System Basis Chip: Pinname changed from "VCCA_B" to "VDDA_B";</p> <p>Pin 41 of the System Basis Chip: Pinname changed from "VCCA_E" to "VDDA_E";</p> <p>Productname "NTSafeSOMmicro" added to the Layout;</p> <p>Change G1 to NX3225GD-STD-CRA-3_e;</p> <p>Change G2 to NX3225GD-STD-CRA-3_e;</p> <p>Change H1 to "TLMY1000-GS08";</p> <p>Change H5 to "TLMO1000-GS08";</p> <p>UART-TX pin moved to Safety MCU pin 80;</p> <p>UART-RX pin moved to Safety MCU pin 81;</p> <p>3-Pin header "MPE 087-1-003" for UART added;</p> <p>Testpoints TP29 for CAN RX and TP30 for CAN TX added;</p> <p>1 pin header P0 for GND signal added;</p> <p>Testpoint TP31 added to pin 24 of the safety MCU.</p>	2018-07-09	AB/ASH
V 1.1	<p>Pulldown resistor (R3) of MCU2_RST changed to pullup resistor;</p> <p>Resistor R21 set to "NOT FITTED";</p> <p>Removed comment at R16;</p> <p>Swapped Pin "C" and "E" of transistor V2;</p>	2018-08-01	ABU



Produkttitel: NTSafeSOMmicro	
Blatttitel: Revision History	
Blattname: 11648_0004_0003_Revision History.SchDoc	Dokumentnummer: 11648_0004_0003
Stand: 10.09.2018 17:30:09	Revision: V1.1
Blatt 1 von 0	



11648_0004_0003_Diagnostic_MCU.SchDoc

11648_0004_0003_Safety_MCU.SchDoc

11648_0004_0003_System_Basis_Chip.SchDoc

11648_0004_0003_Connectors_and_interfaces.SchDoc

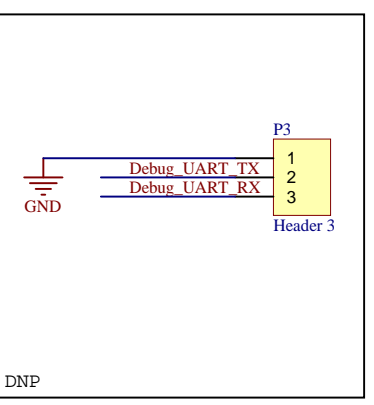
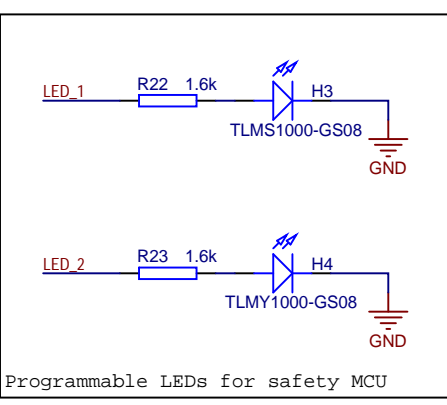
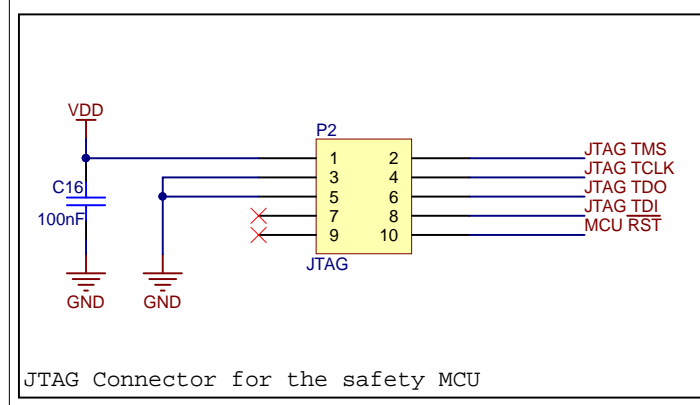
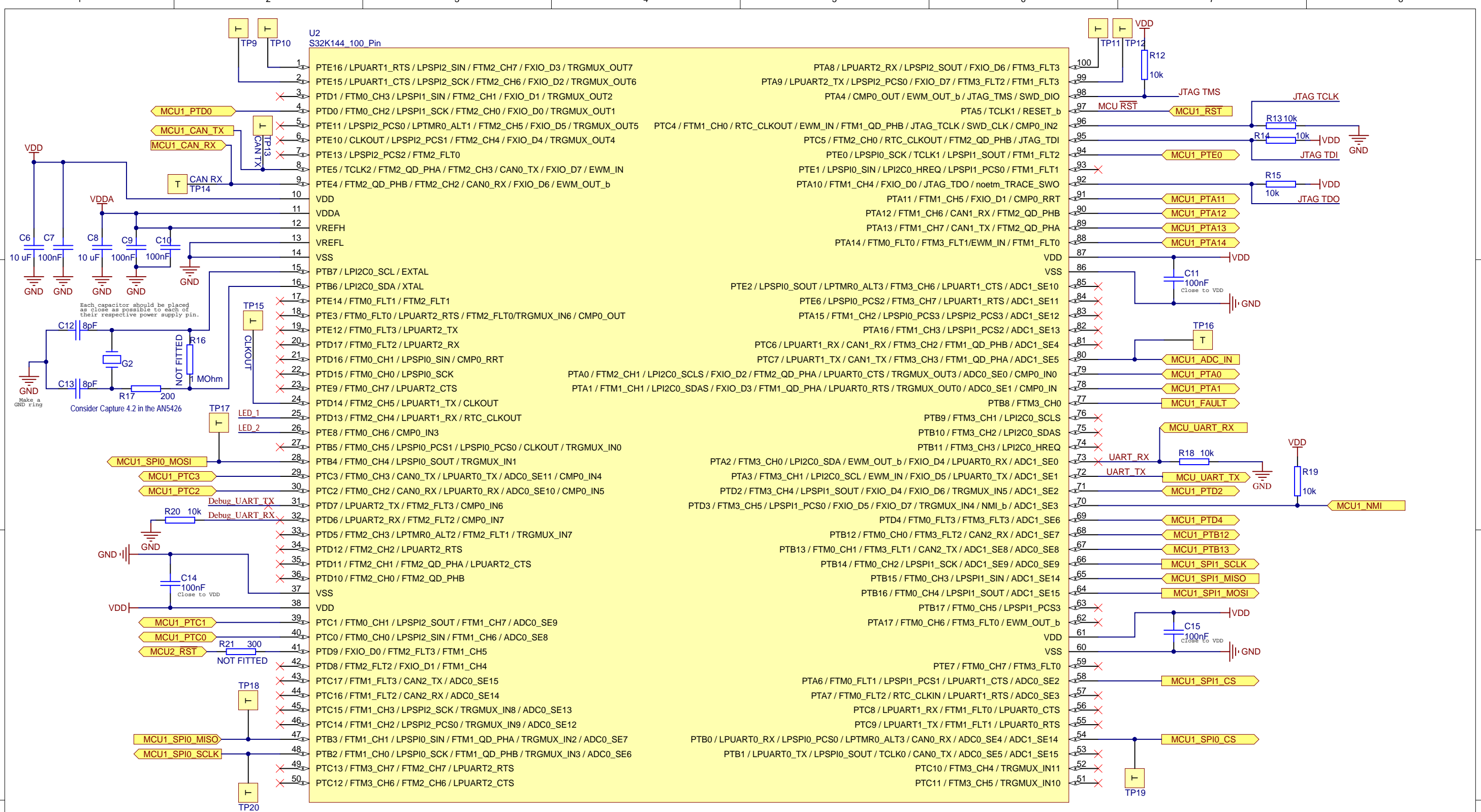


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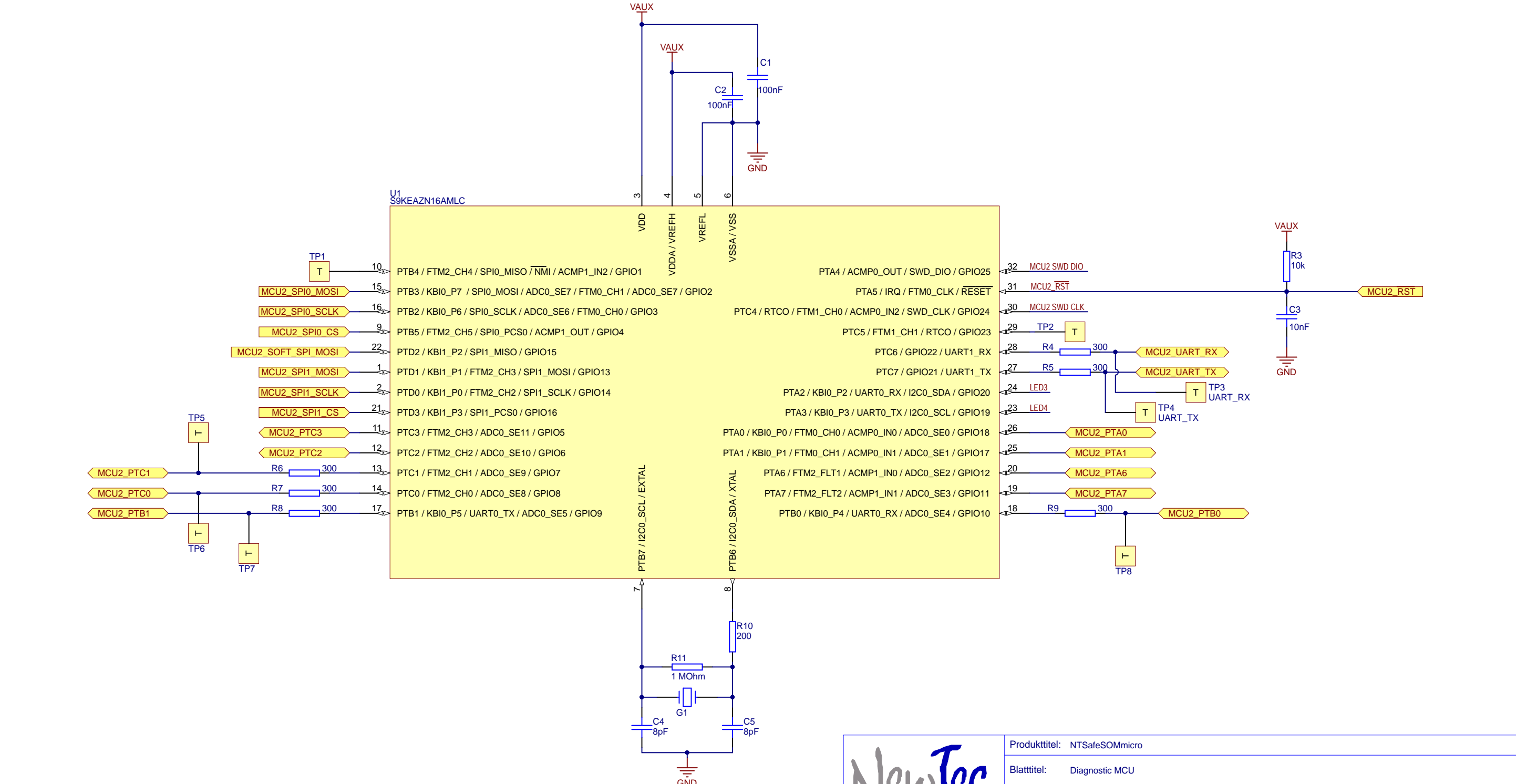
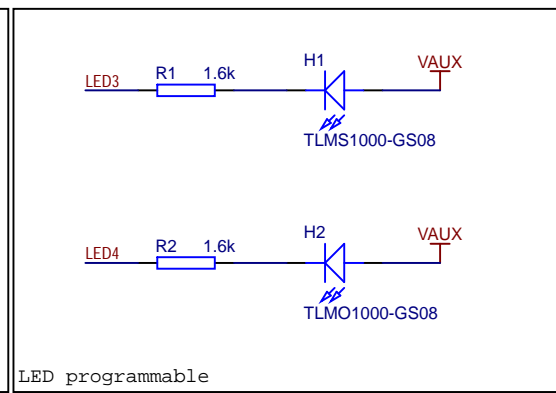
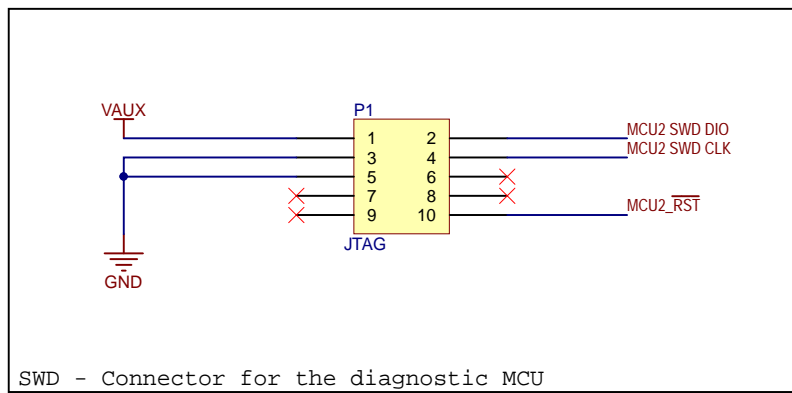
Revision History
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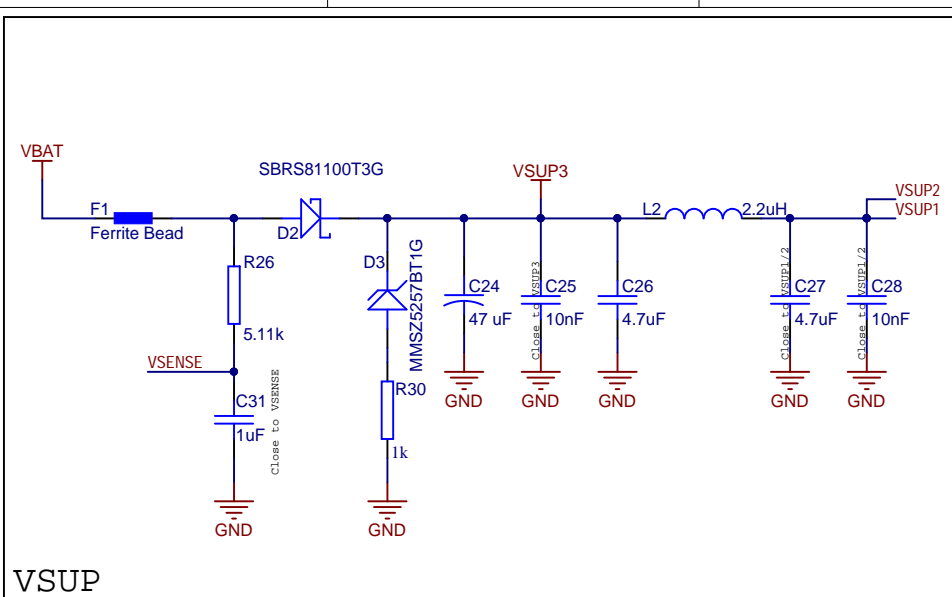
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Stand: 10.09.2018 17:30:09		Revision: V1.1	
			Blatt 2 von 0



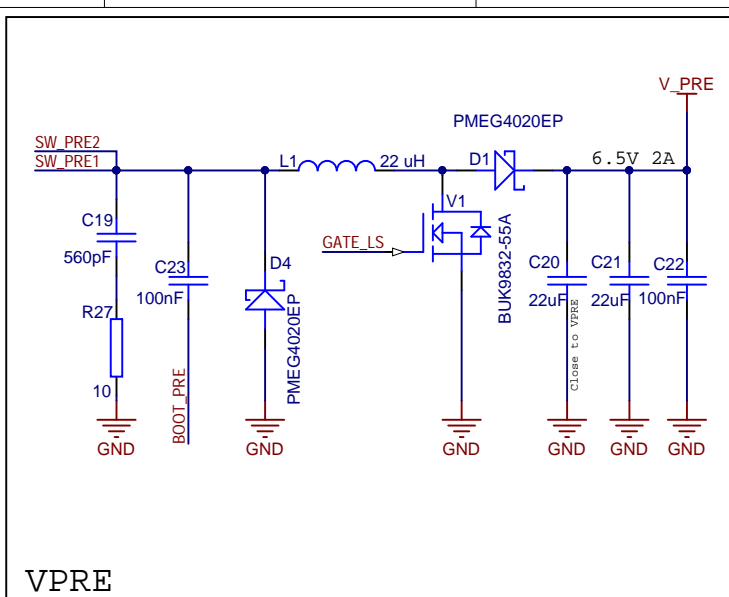
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Blatttitel: Safety MCU	
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Stand: 10.09.2018 17:30:09	Revision: V1.1
Blatt 3 von 0	



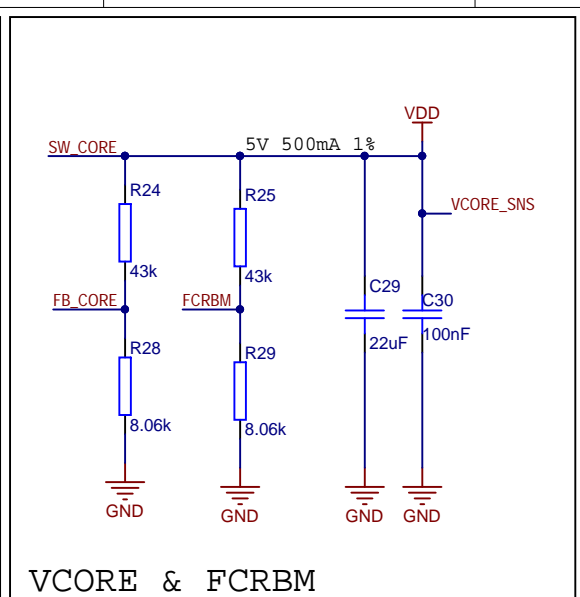
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Stand: 10.09.2018 17:30:09	Revision: V1.1
Blatt 4 von 0	



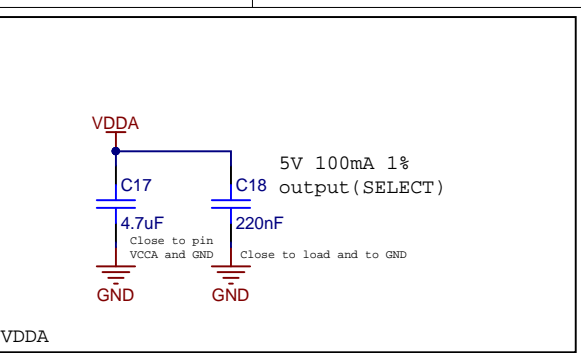
VSUP



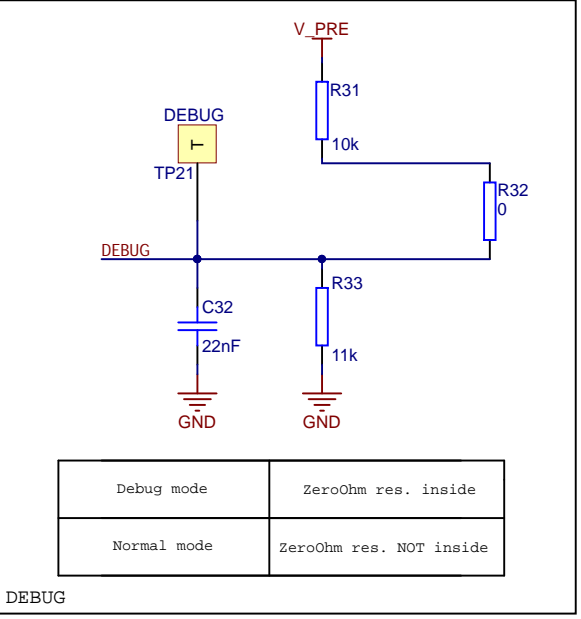
VPRE



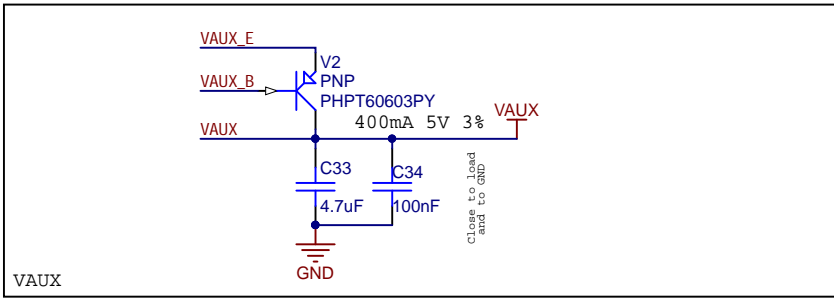
VCORE & FCRBM



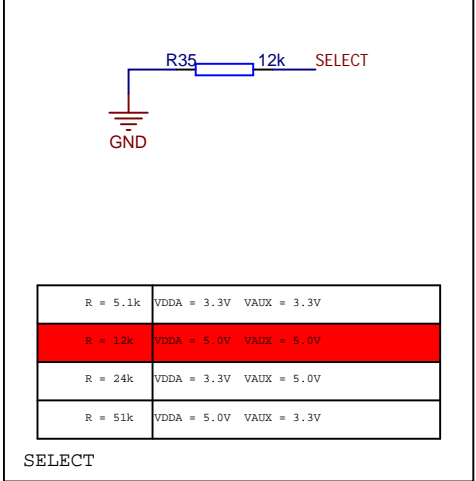
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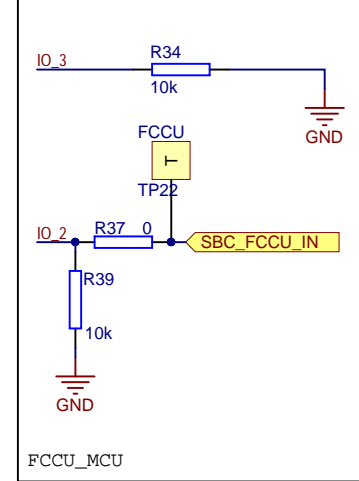
DEBUG



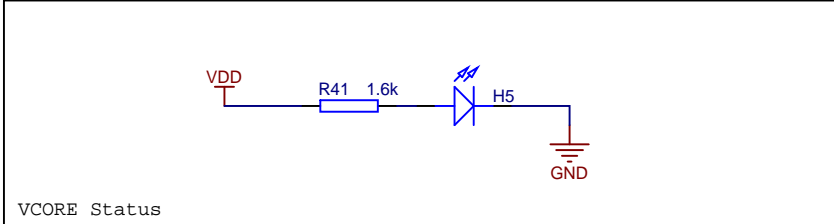
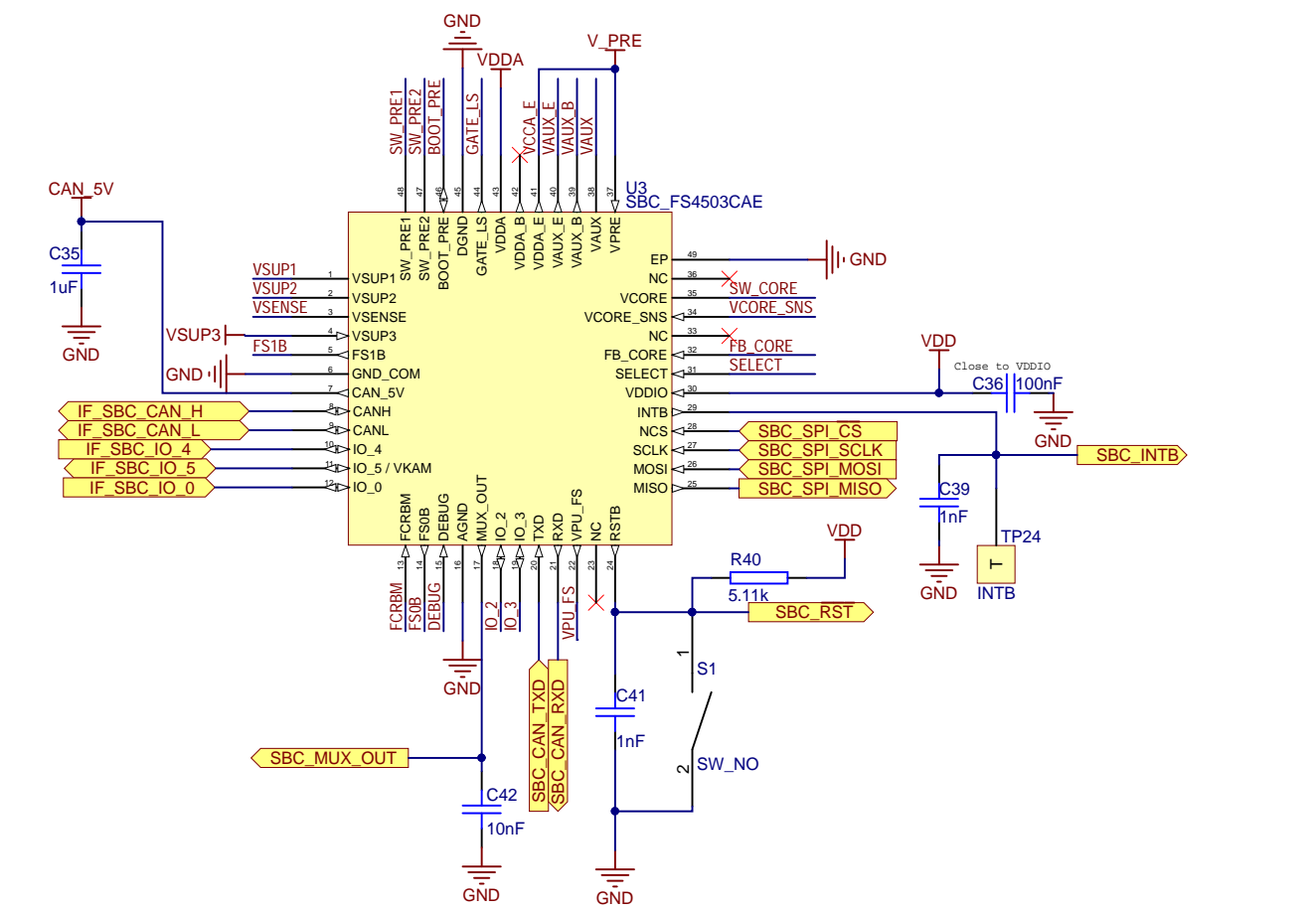
VAUX



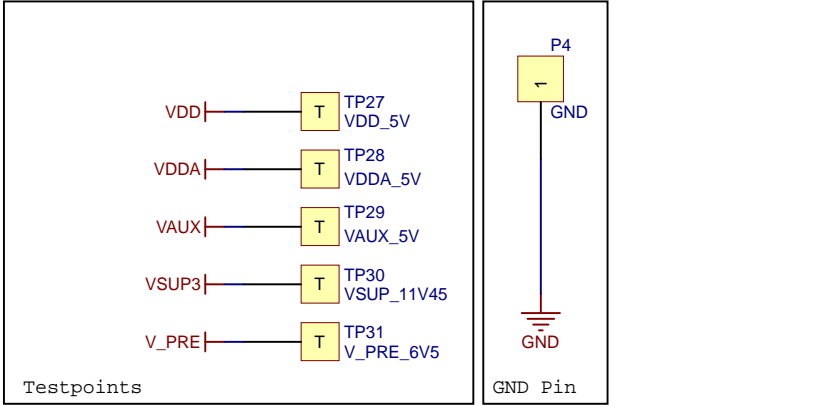
SELECT



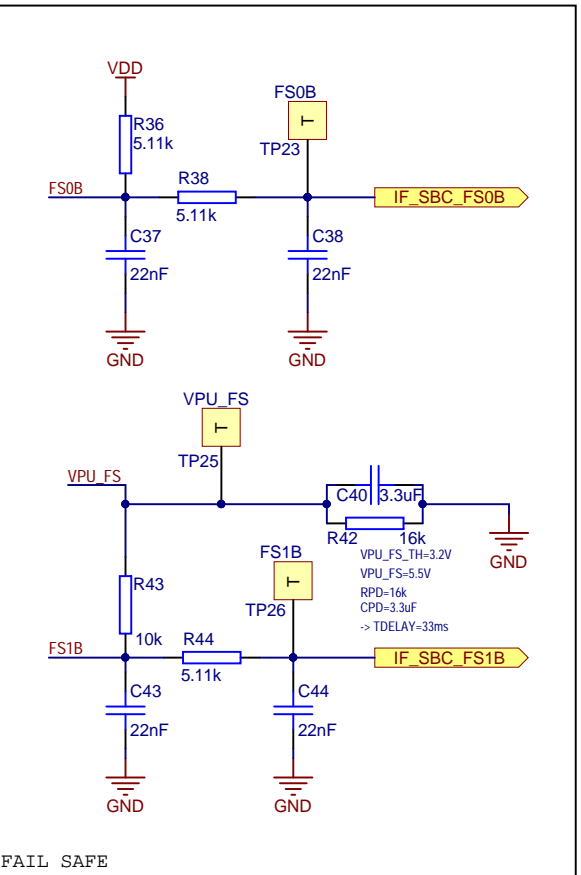
FCCU_MCU



VCORE Status



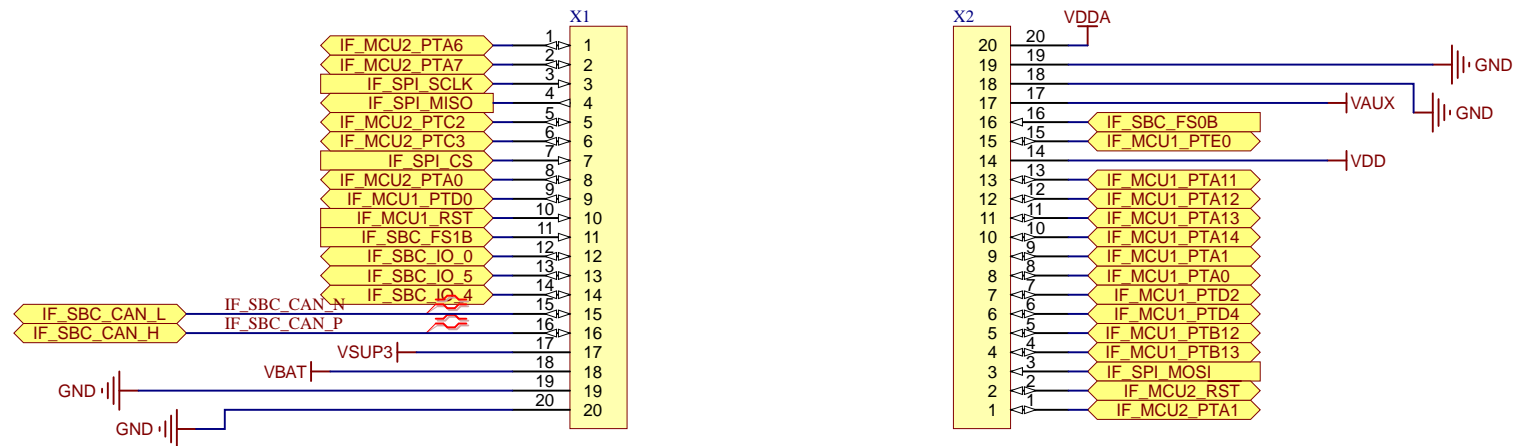
Testpoints



FAIL SAFE

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Produkttitel: NTSafeSOMmicro		Revision: V1.1	
Blatttitel: System Basis Chip		Blatt 5 von 0	
Blattname: 11648_0004_0003_System_Basis_Chip.SchDoc		Dokumentnummer: 11648_0004_0003	
Stand: 10.09.2018 17:30:09			



VDD:	5V	[output] 5V Logic Supply Voltage (500mA), also used for Safety MCU
VDDA:	5V	[output] Analog Supply Voltage (100mA) +/- 1% Accuracy
VAUX:	5V	[output] Auxiliary Voltage supply (400mA) also used for Diag MCU
VBAT:	12V	[input] Supply Voltage from e.g. from CL30
VSUP3:	11,45V	[output] Filtered Supply Voltage afert input protection

Baseboard Connector