KIT_T2G-B-H_LITE_REV-01

CONTENTS

PAGE	DESCRIPTION
01	Title, Table of Contents & Drawing Numbers
02	Power Supply - 1
03	Power Supply - 2
04	KitProg3 Interface
05	T2G MCU Power
06	T2G-B-H-8M 176 MCU1
07	T2G-B-H-8M 176 MCU2
08	T2G-B-H-8M 176 MCU3
09	T2G-B-H-8M 176 MCU4
10	T2G-B-H-8M 176 MCU5
11	T2G-B-E-4M 100 MCU
12	Peripherals Interface
13	CAN and QSPI Interface
14	Ethernet Interface
15	Shield2Go / MIKROBUS
16	Arduino Headers
17	Expansion Headers
18	Accessories
19	Revision History

Drawing Numbers

PCBA	
PCB	
FAB DRW	
ASSY DRW	
SCH DRW	

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

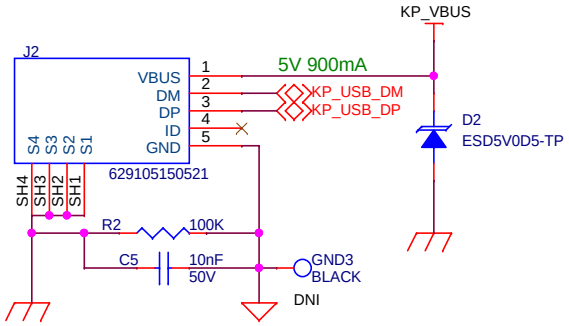
SCH Title : KIT_T2G-B-H_LITE

Page Title: Title Page

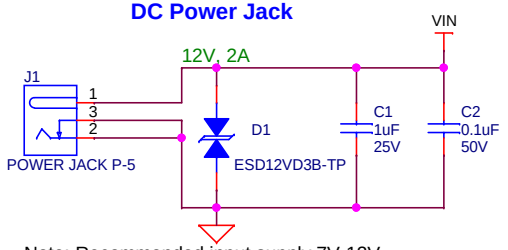
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01

Date: Wednesday, July 05, 2023

KitProg3 USB Micro-B Connector

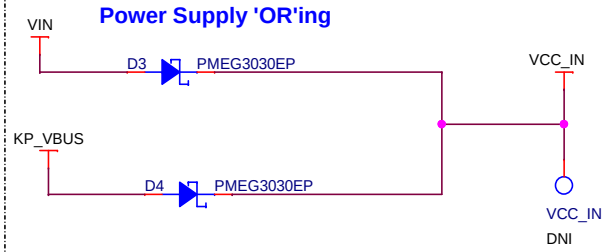


DC Power Jack

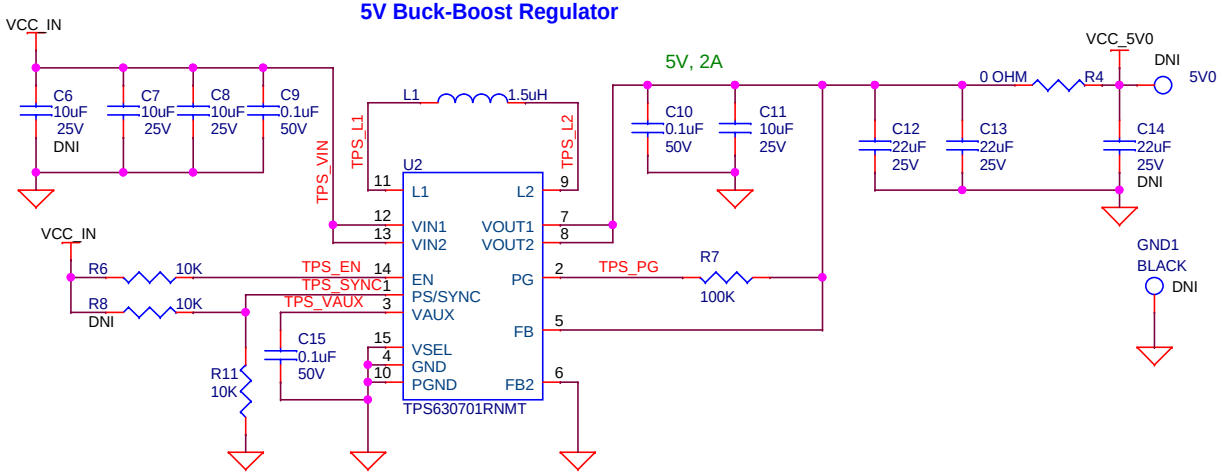


Note: Recommonded input supply 7V-12V

Power Supply 'OR'ing

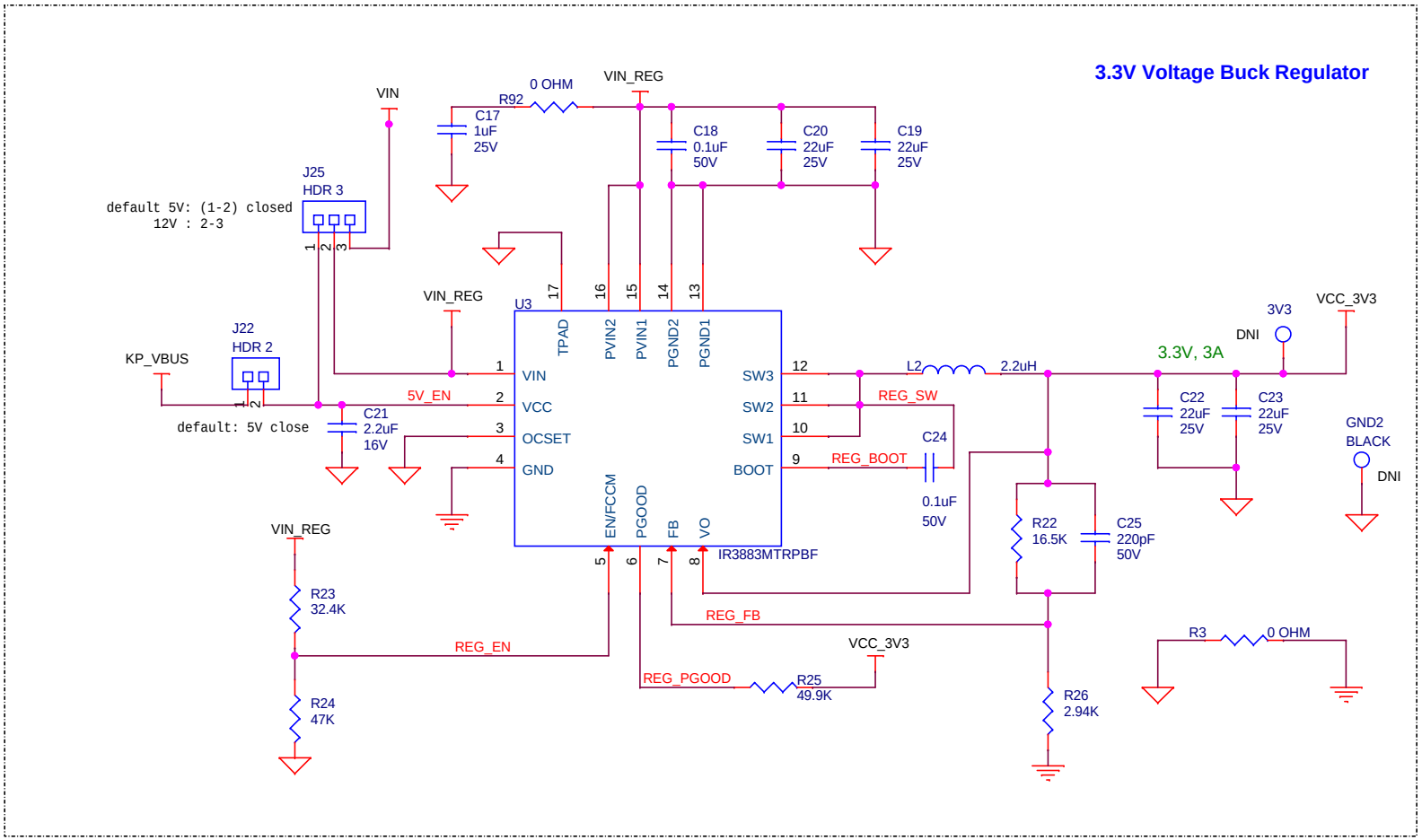


5V Buck-Boost Regulator



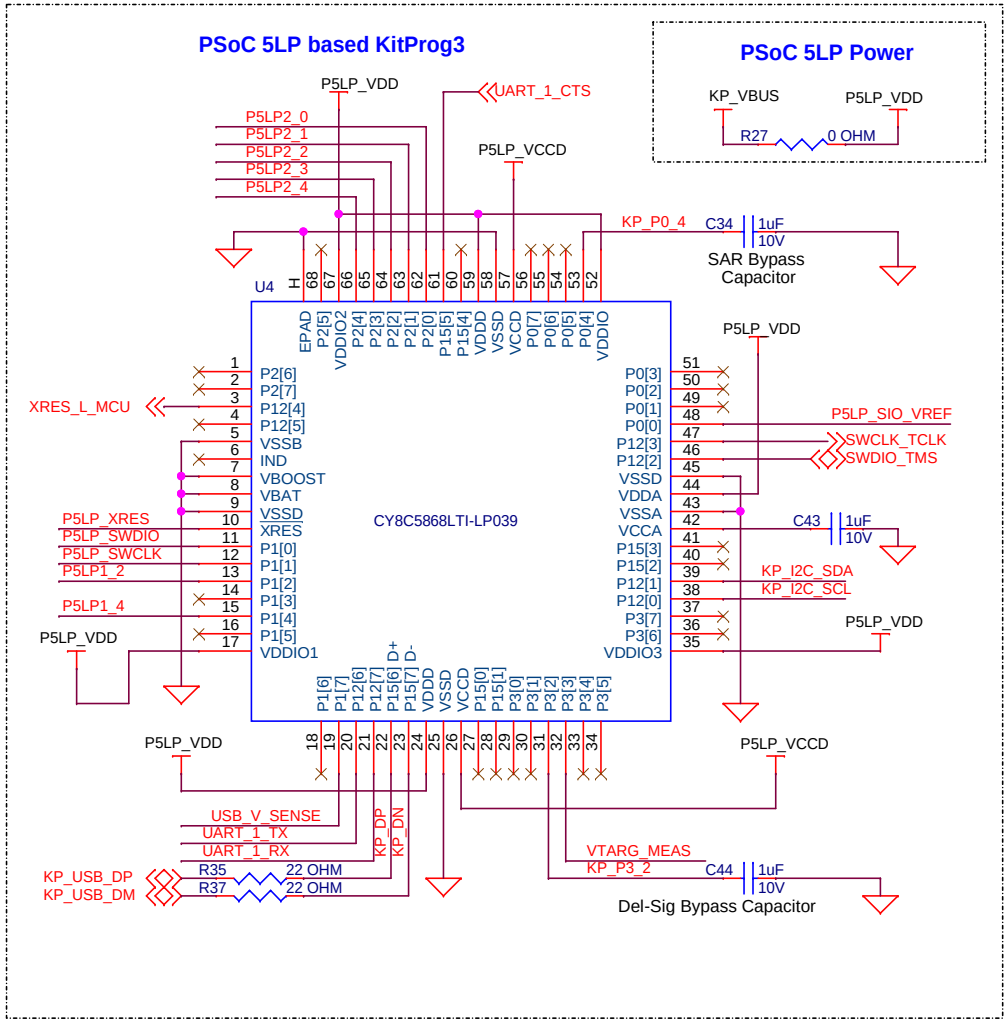
Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

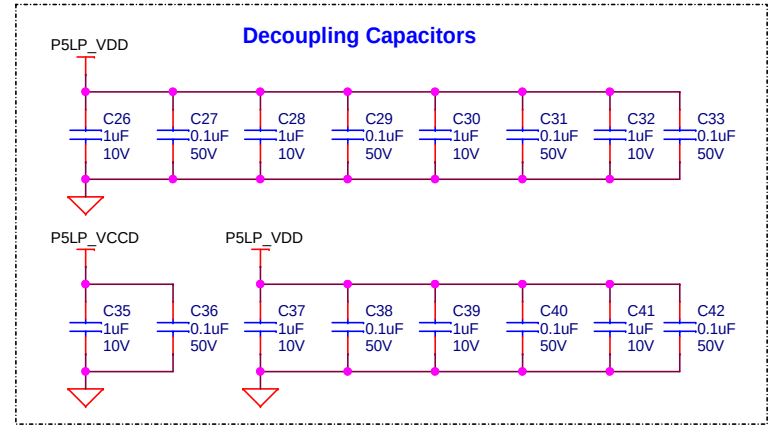
SCH Title : KIT_T2G-B-H_LITE				
Page Title: Power Supply-1				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 2 of 19		

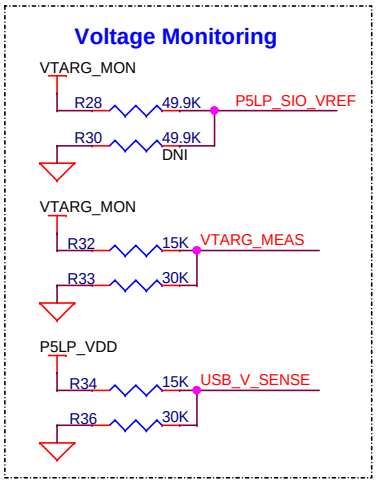


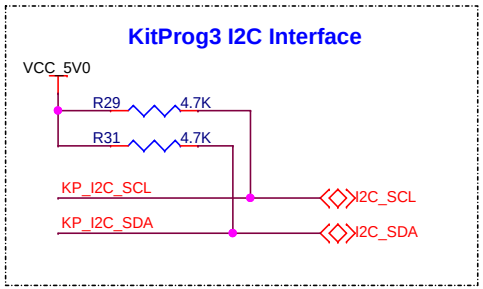
Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

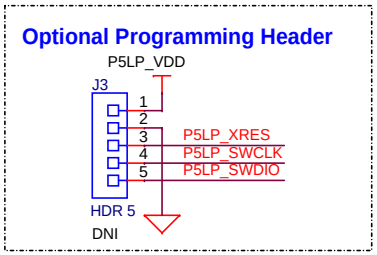
SCH Title : KIT_T2G-B-H_LITE				
Page Title: Power Supply-2				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 3 of 19	

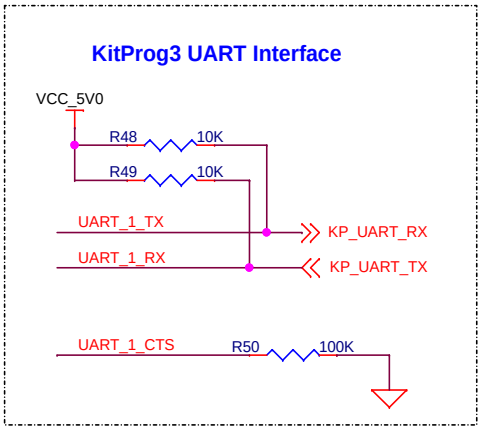


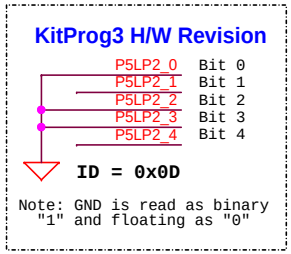


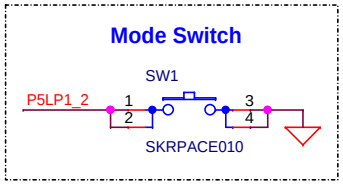


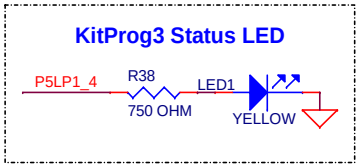








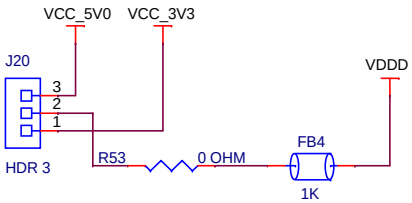




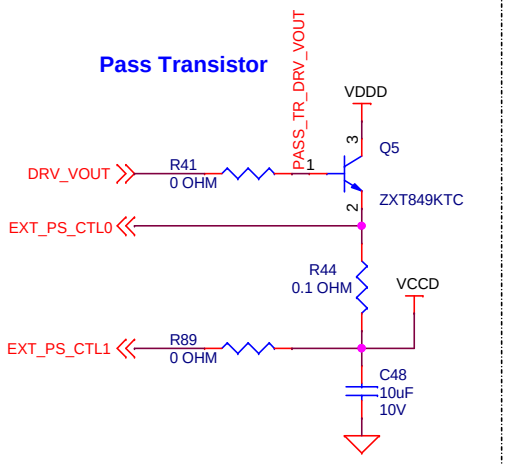
Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: KitProg3 Interface				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 4 of 19		

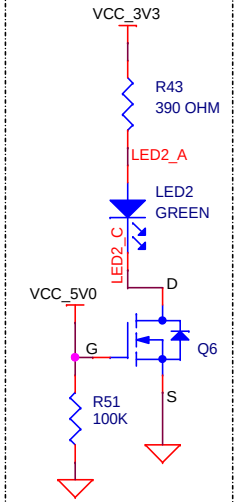
T2G_MCU_Power



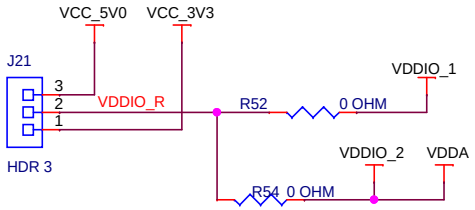
Pass Transistor



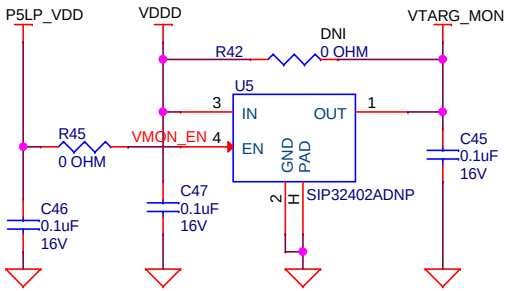
Power LED



Current Measurement Jumper



Voltage Monitoring

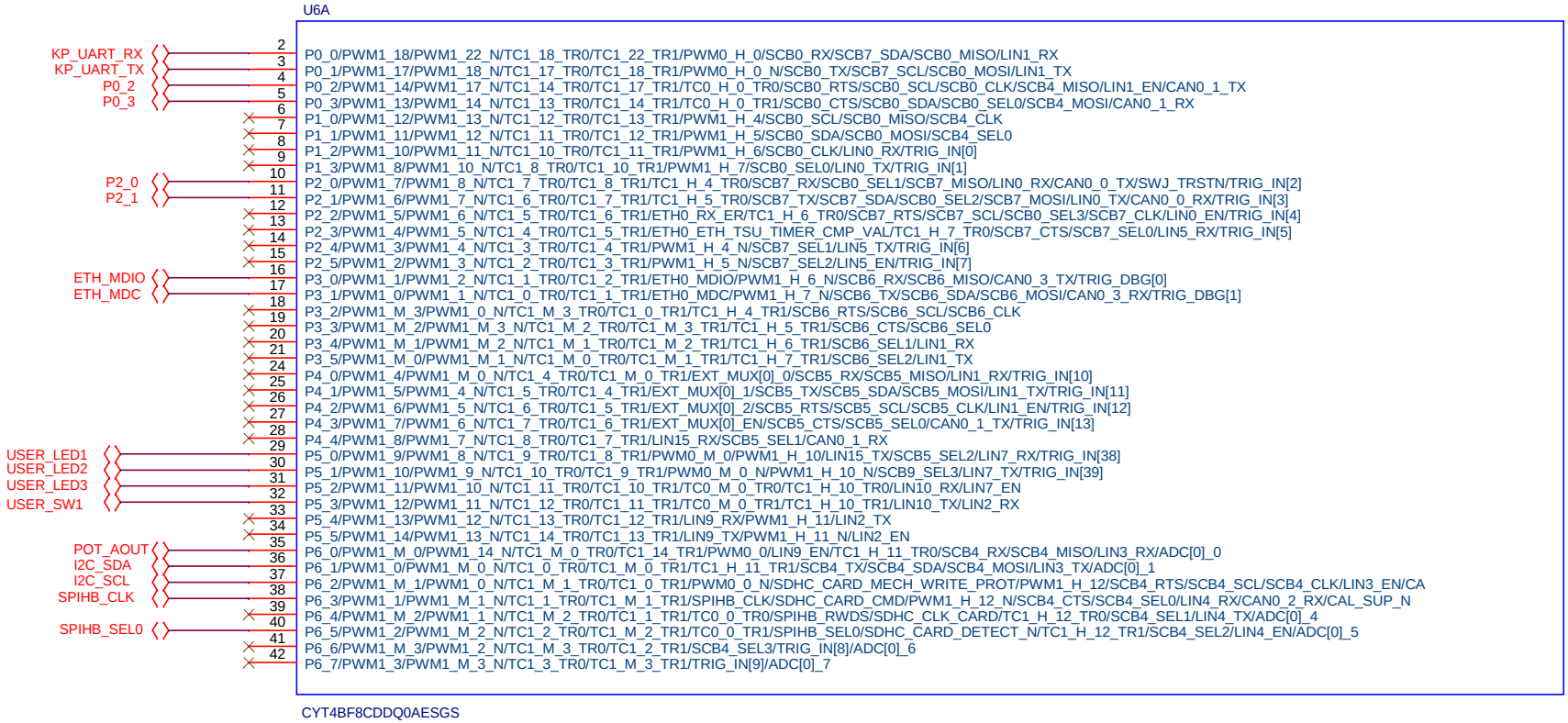


Legal Disclaimer :

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G MCU Power				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 5 of 19	

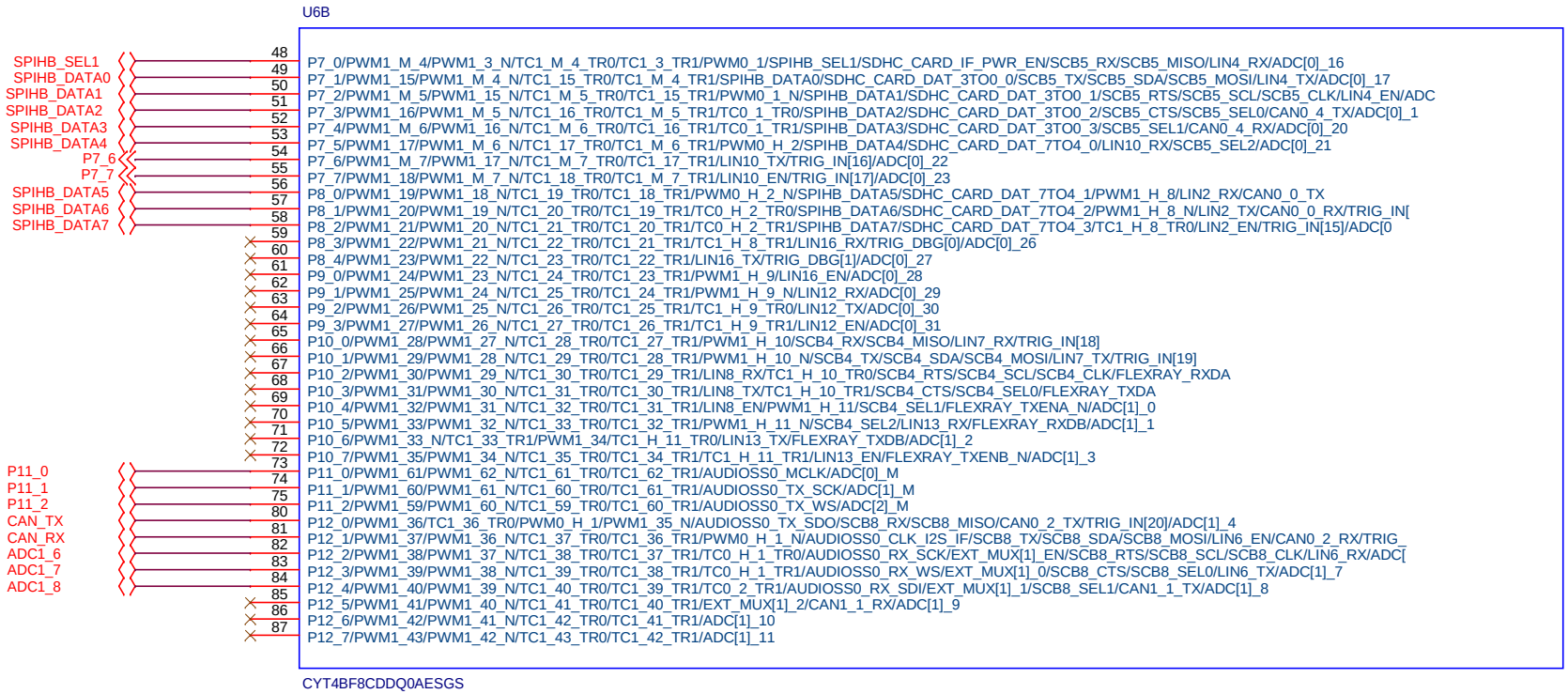
T2G-B-H-8M 176 MCU1



Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-H-8M 176 MCU1				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 6 of 19		

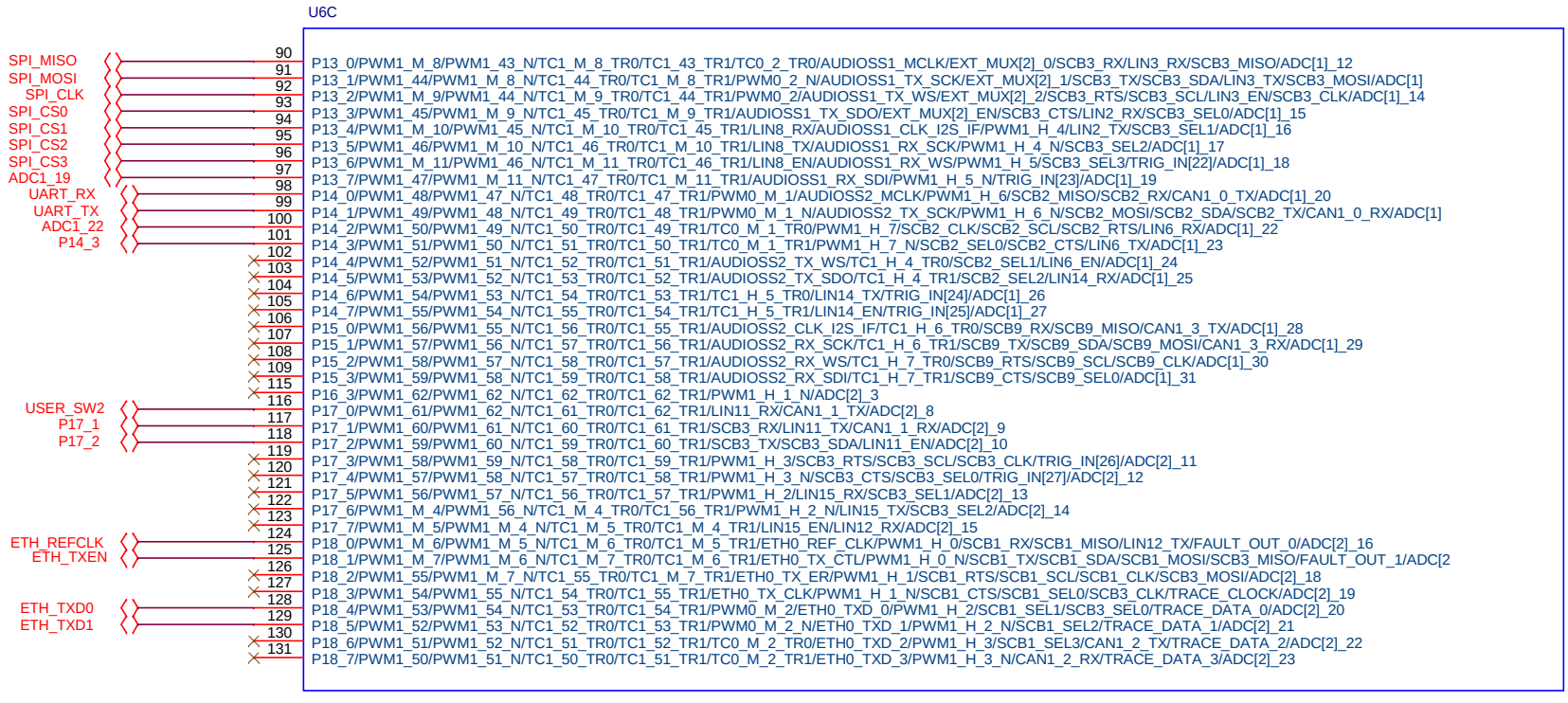
T2G-B-H-8M 176 MCU2



Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-H-8M 176 MCU2				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 7 of 19		

T2G-B-H-8M 176 MCU3



Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

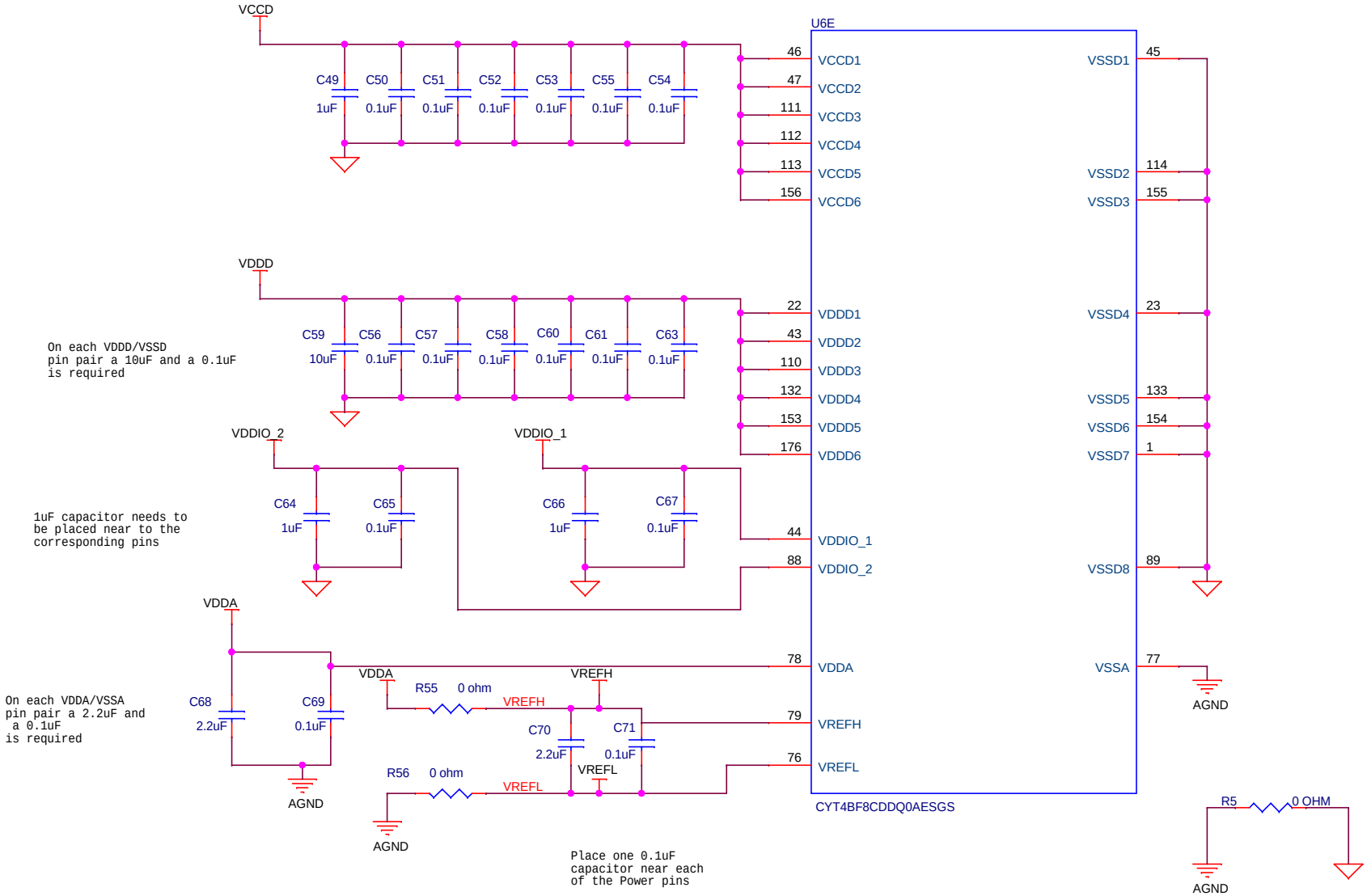
SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-H-8M 176 MCU3				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 8 of 19	

T2G-B-H-8M 176 MCU4

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-H-8M 176 MCU4				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 9 of 19		

T2G-B-H-8M 176 MCU5

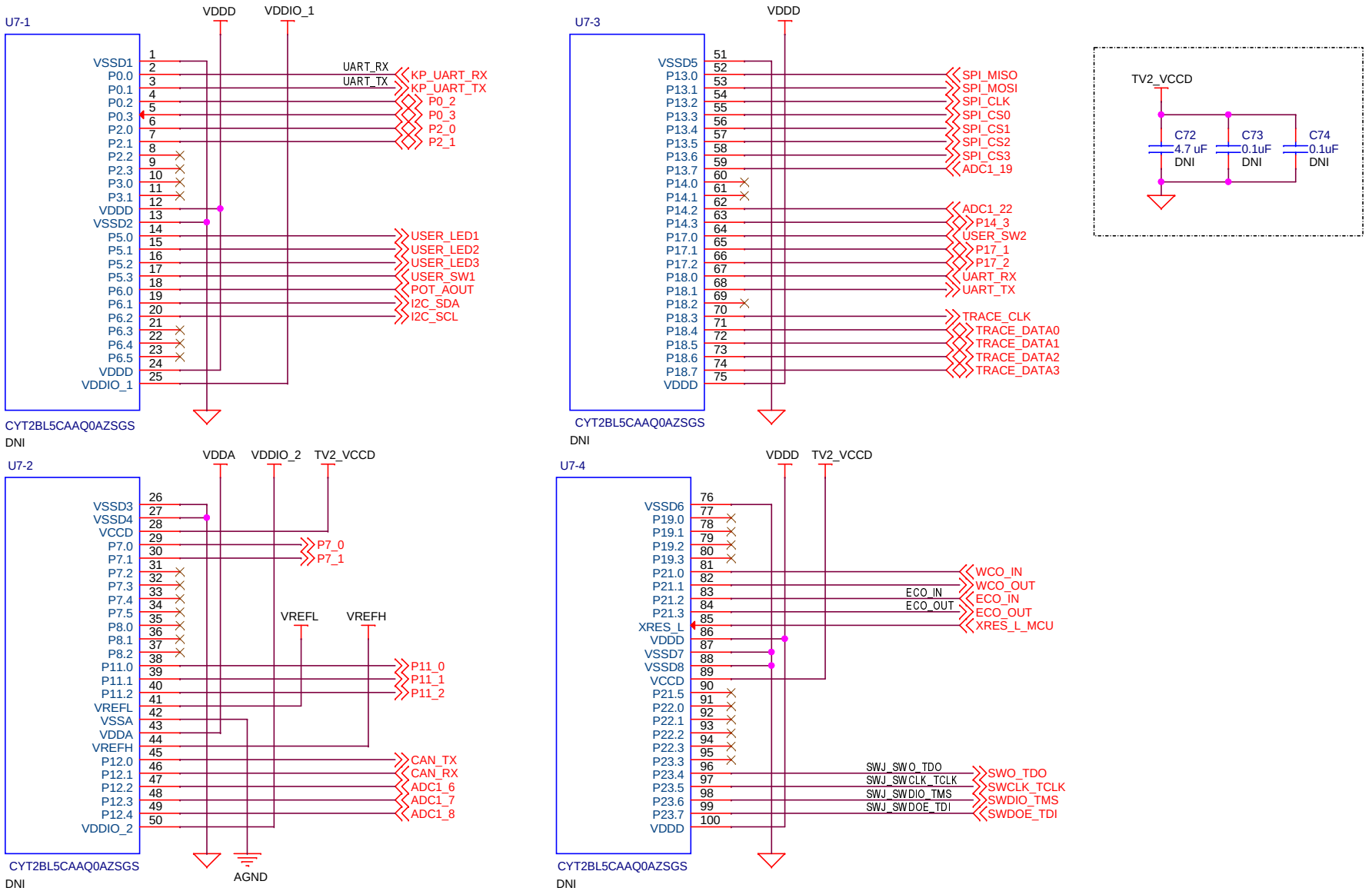


Legal Disclaimer :

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-H-8M 176 MCU5				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 10 of 19	

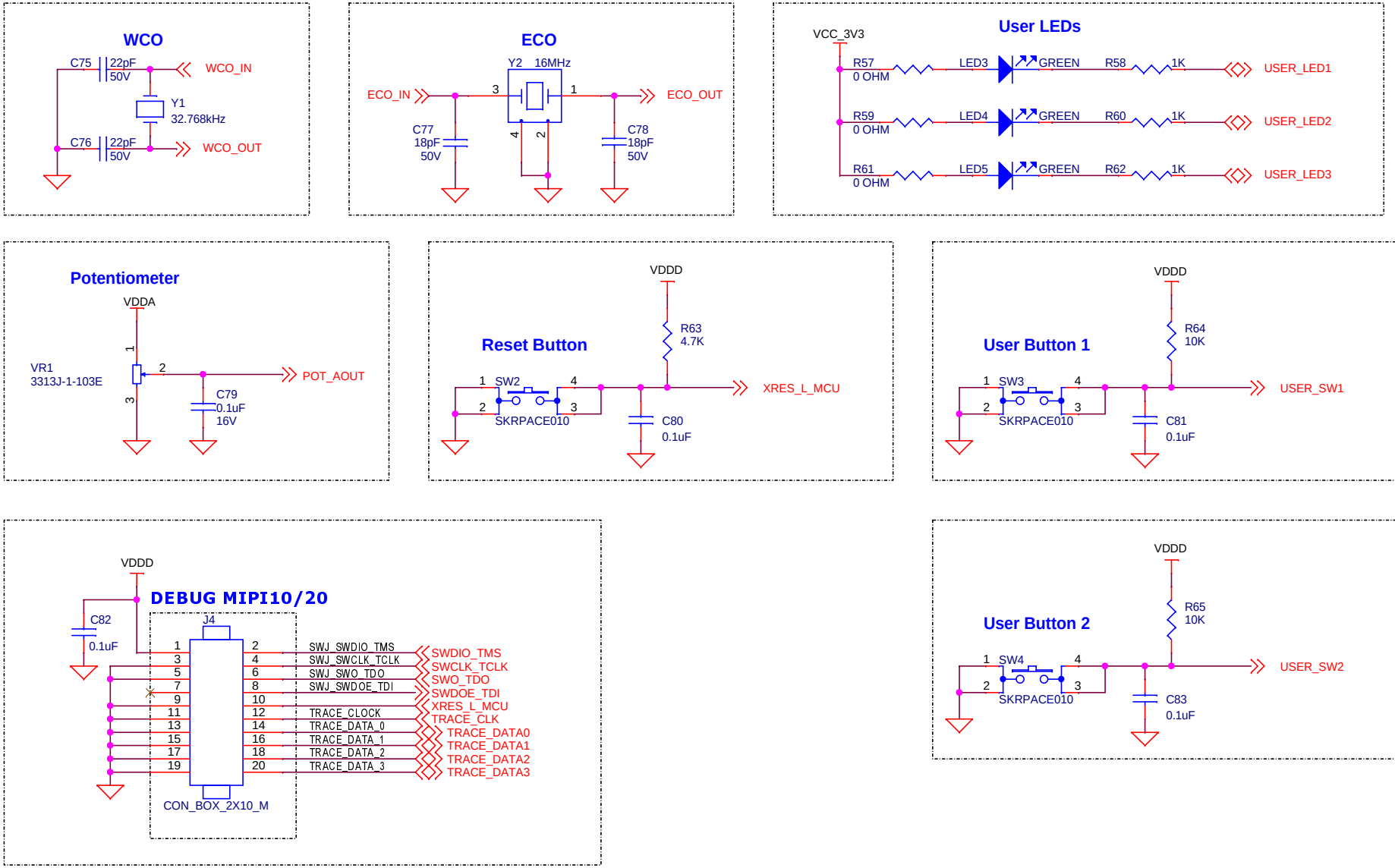
T2G-B-E-4M 100 MCU1



Legal Disclaimer :

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

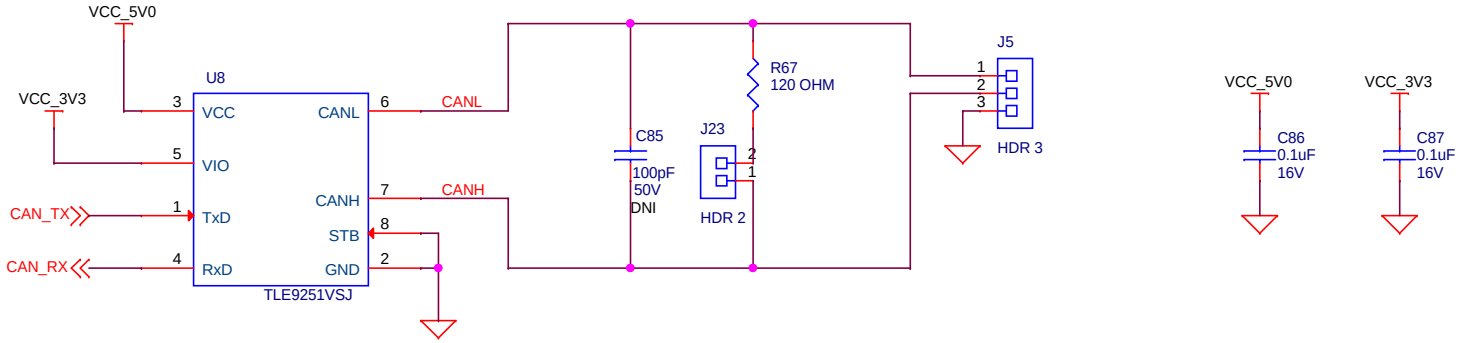
SCH Title : KIT_T2G-B-H_LITE				
Page Title: T2G-B-E-4M 100 MCU				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 11 of 19		



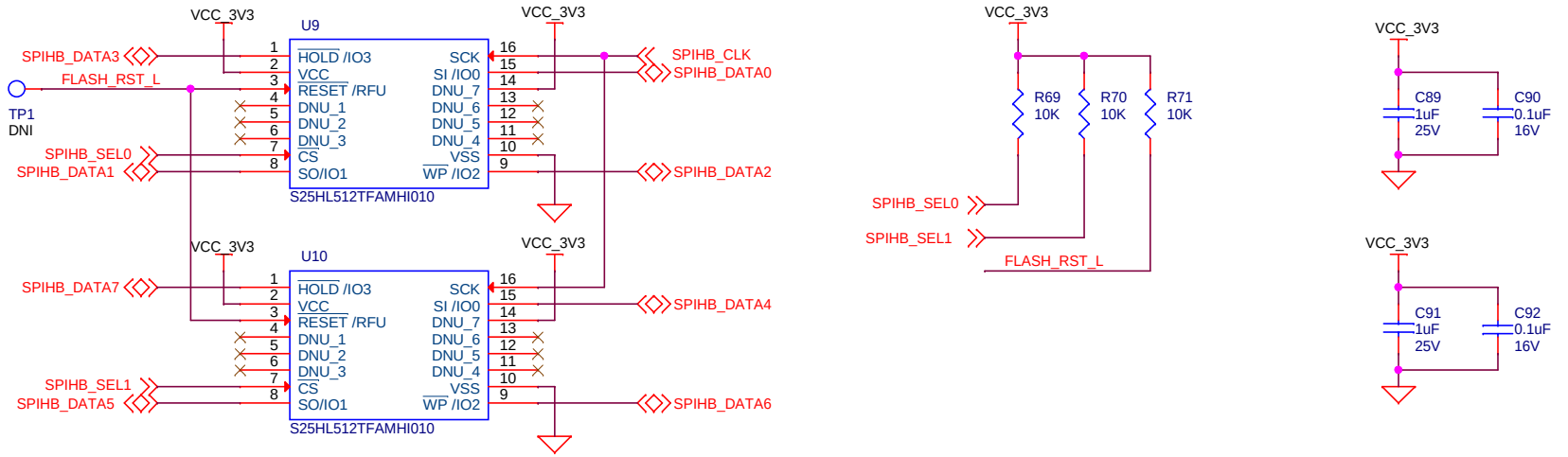
Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Peripheral Interface				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 12 of 19	

CAN FD Transceiver

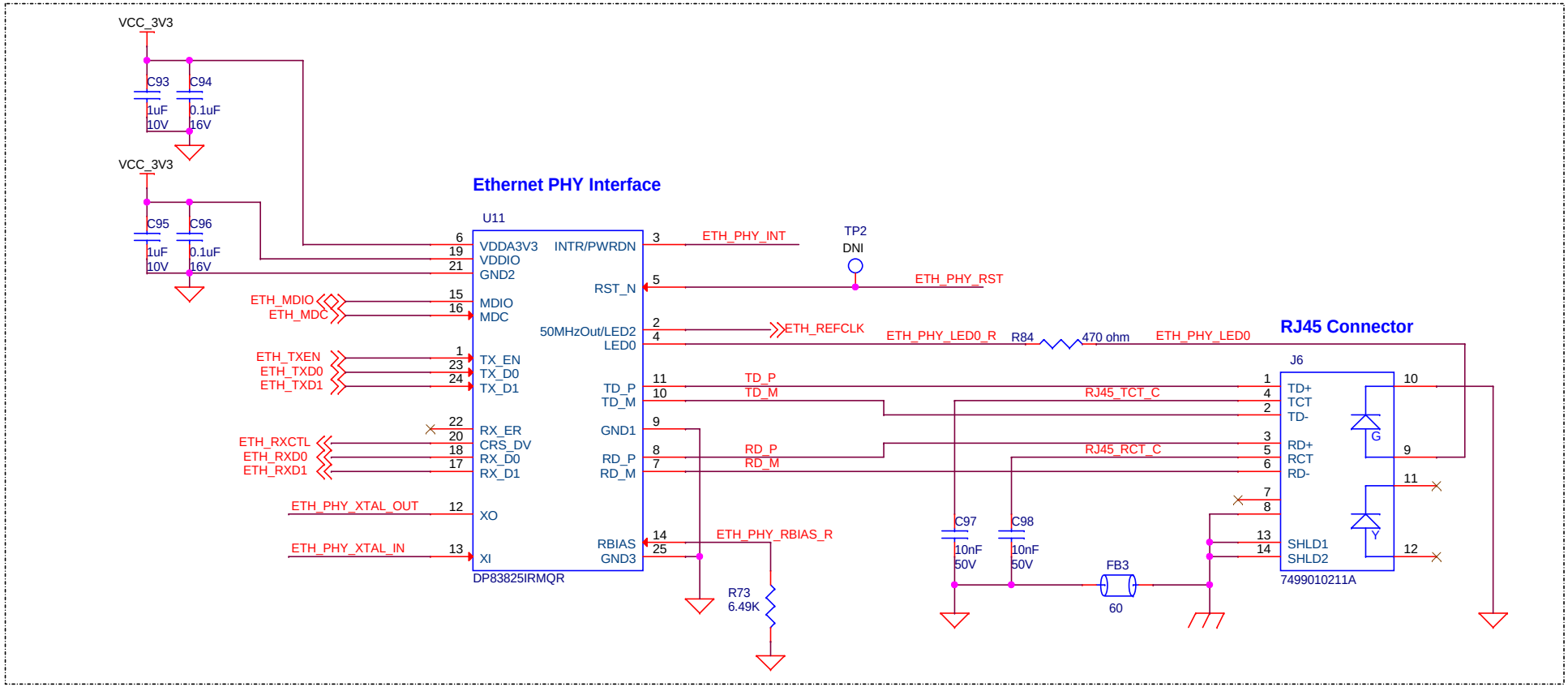


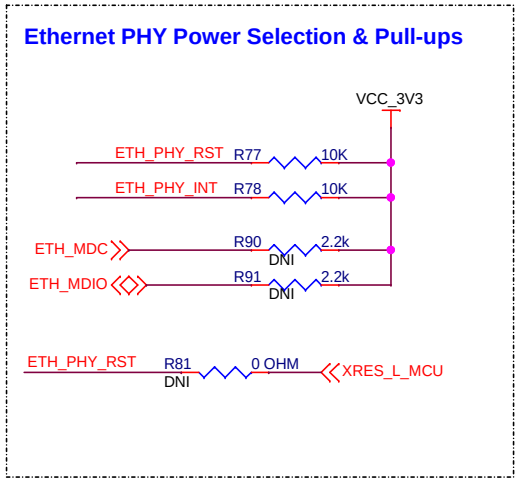
Quad SPI Flash Memory Section

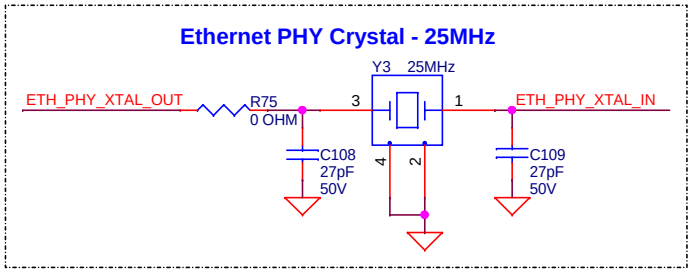


Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: CAN and QSPI Interface				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 13 of 19	



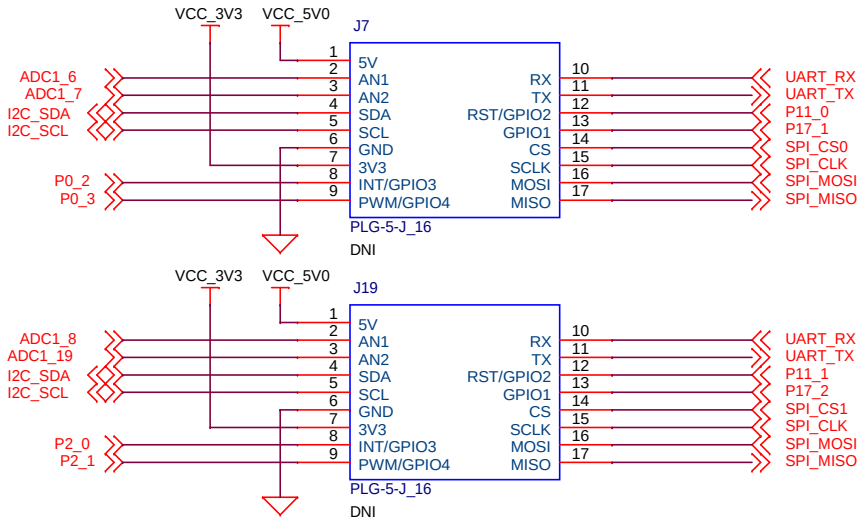




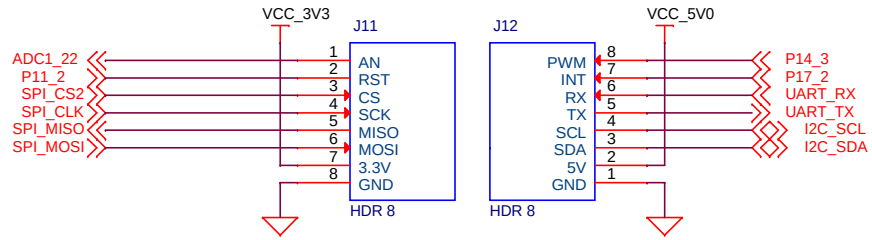
Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Ethernet Interface				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 14 of 19		

Shield2Go Connector



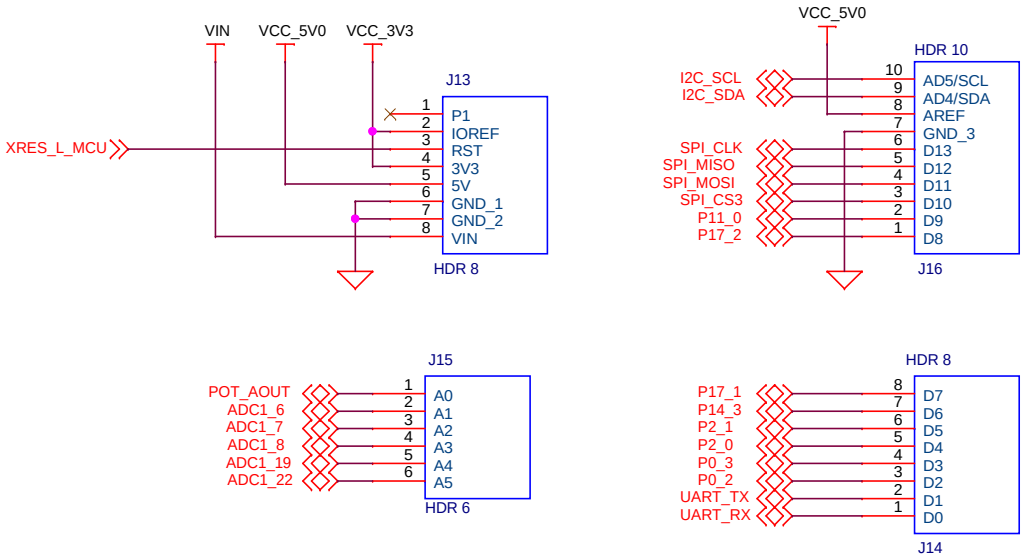
MIKROBUS Connector



Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Shield2Go / MIKROBUS				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023		Sheet 15 of 19		

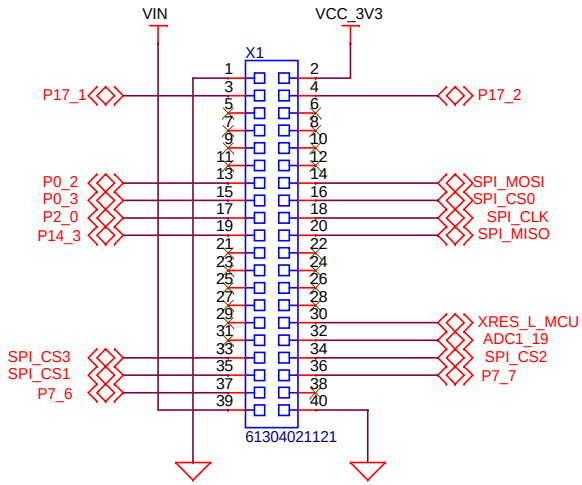
Arduino Headers

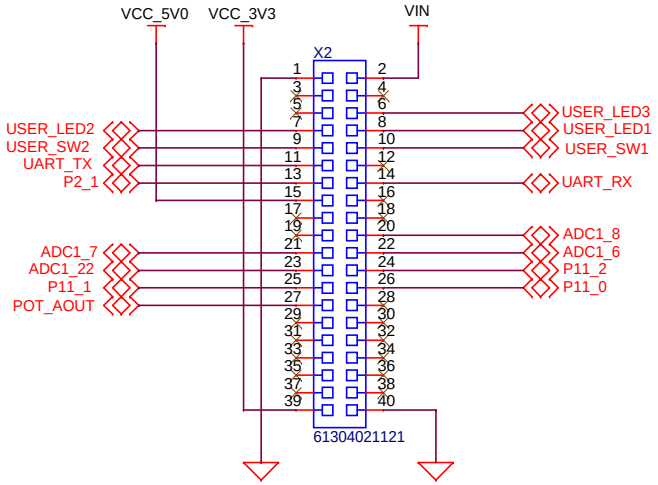


Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Arduino Headers				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 16 of 19	

Expansion Headers

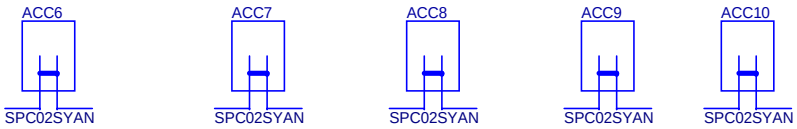




Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Expansion Headers				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 17 of 19	

Accessories



Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Accessories				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 18 of 19	

REVISION HISTORY

REV	DESCRIPTION OF CHANGE	Orig. of Change	DATE
A	Initial Release	TAKEBAYASHI	2022/7/29
B	J11, J12, J14 change to 61300811821	TAKEBAYASHI	2023/1/12
C	U9 and U10 change to S25HL512TFAMHI010 Ether PHY(U11) and RJ45(J6) change parts	TAKEBAYASHI	2023/2/21
D	no change. just revision up	TAKEBAYASHI	2023/3/30
01	J4 is loaded TP1, TP2 added for QSPI and Ethernet Reset J22 is added between VCC and KP_VBUS J25 is added for Regulator VIN selection R90, R91 has been changed to 2.2k and not loaded. VREFH, VREFL has been changed according to design guidelines R66,R68,C84 has been removed. R67 is loaded. J23 has been added. FB2 has been removed and FB4 added. T2G_VDD rail is removed and VIN_REG is added. X2.35,X2.36 is routed to P7.0 and P7.1 in B-E. P14.0,P14.1 short to P18.0 and P18.1 is removed. User Button, Reset and Debug has been pulled to VDDD.	MERWIN	2023/07/05

Legal Disclaimer :
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation, warranties of non-infringement of intellectual property rights of any third party.

SCH Title : KIT_T2G-B-H_LITE				
Page Title: Revision History				
Size	Document Number	Drawn By	Approved By	Rev
A4	630-60668-01	MERWIN	VJYM	01
Date: Wednesday, July 05, 2023			Sheet 19 of 19	