

REV	DESCRIPTION	Date
1.0	Initial production release	02/21/2016
1.0a	Performed cosmetic changes to improve readability	03/09/2016
1.1	<ul style="list-style-type: none"> <li>- Adjusted footprints and layout in order to improve manufacturability</li> <li>- Changed signal AGND to GND</li> <li>- Removed R35, R54, R60, R61, C21, U16 and J33</li> <li>- Removed signal READER_RX and READER_TX from J28</li> <li>- D1 LED connection changed from CBUS0 to CBUS2 in U5</li> <li>- Fixed U13 pin 7. It was not connected in the layout</li> <li>- U21, U23, U24 are now enabled/disabled by U1</li> <li>- U22 is now enabled/disabled by PWR_SW_ON signal</li> <li>- Added signal LCD_TEST_V to J32</li> </ul>	07/11/2016

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1	Hermes Schematic Cover Page
2	BeagleBone Black Interface
3	Touchscreen LCD, CAN BUS and EEPROM
4	RF ID Reader Interface
5	UART Multiplexer
6	USB-UART Interface and XBee
7	UART-I2C/SPI Bridge
8	KNX Module
9	Power Input, Main Connectors and Buttons

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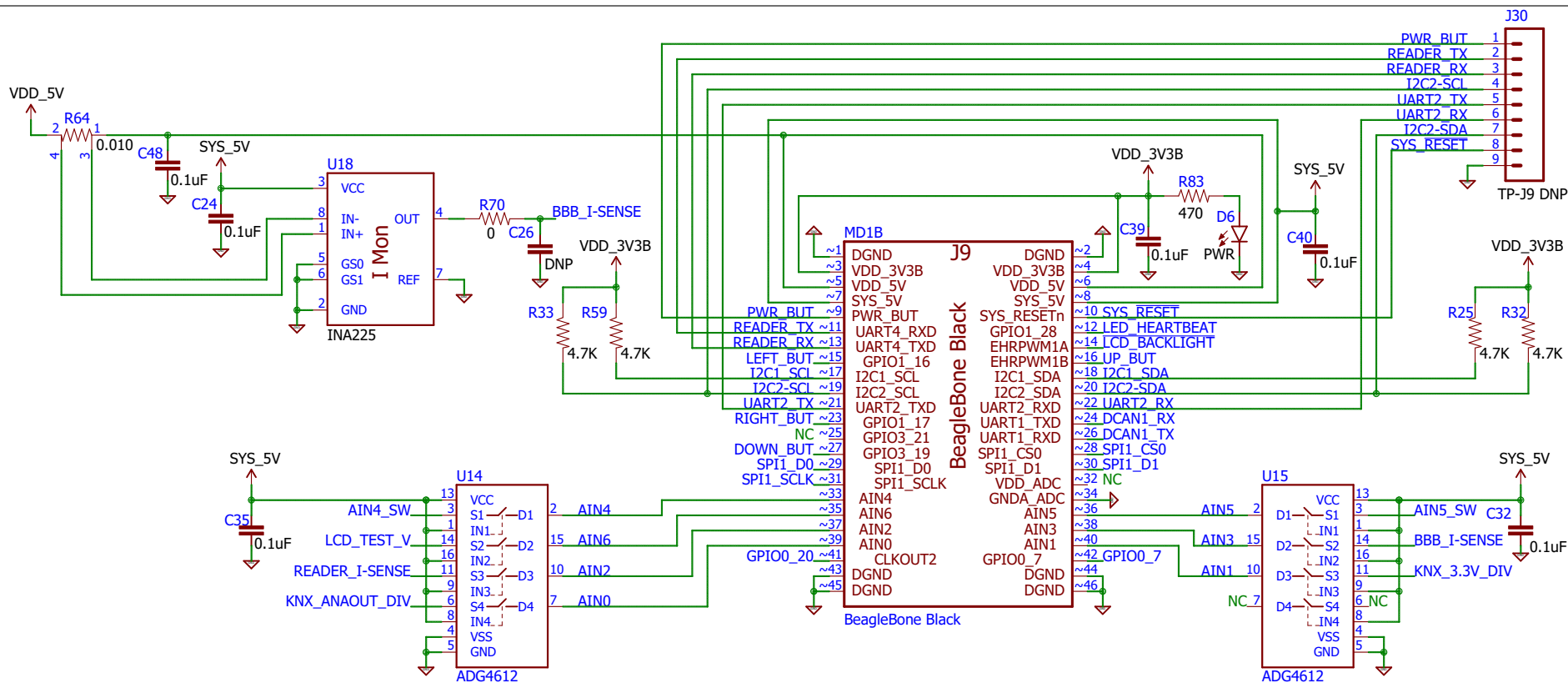
Document Number: RFMicron Hermes Schematics

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1.1

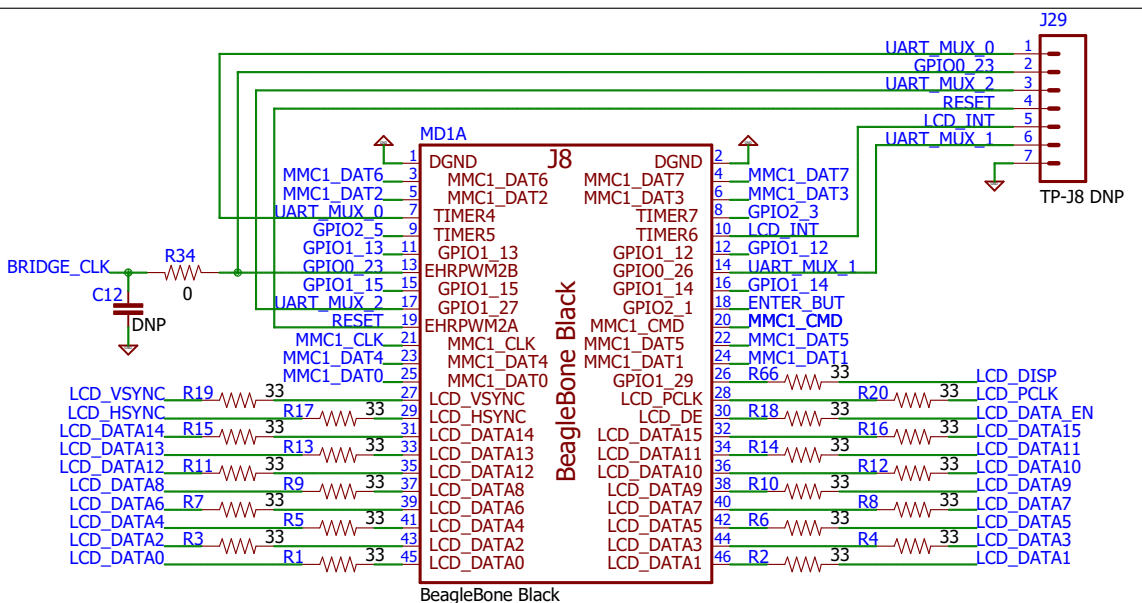
Date: 7/11/2016 3:08 PM

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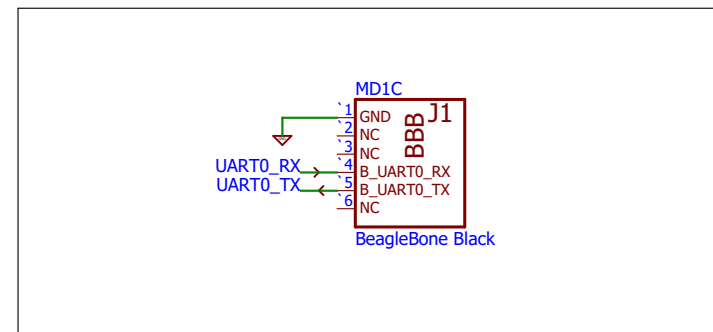
# INTERFACE TO BEAGLEBONE'S P9 CONNECTOR



# INTERFACE TO BEAGLEBONE'S P8 CONNECTOR



# INTERFACE TO BEAGLEBONE'S J1 CONNECTOR



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Document Number: BeagleBone Black Interface

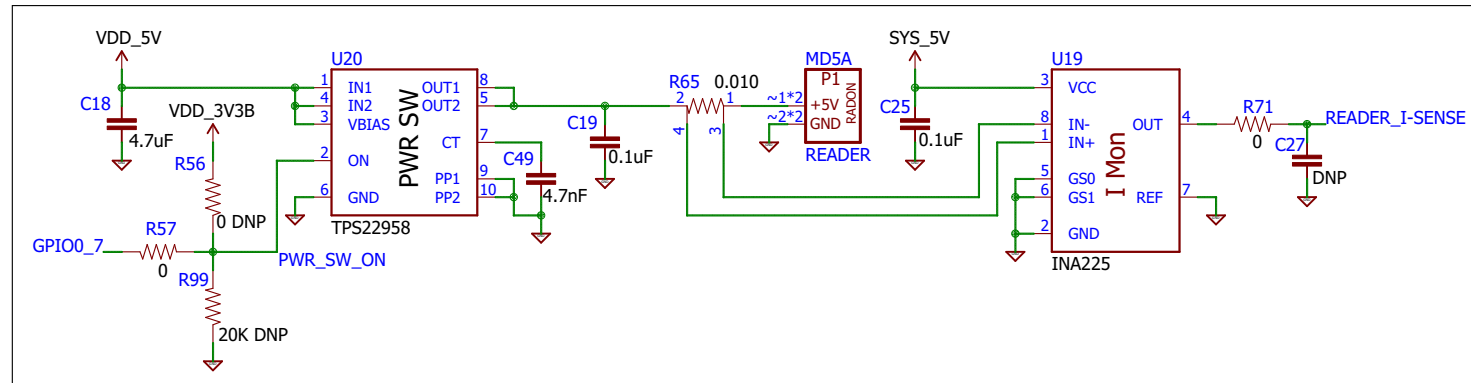
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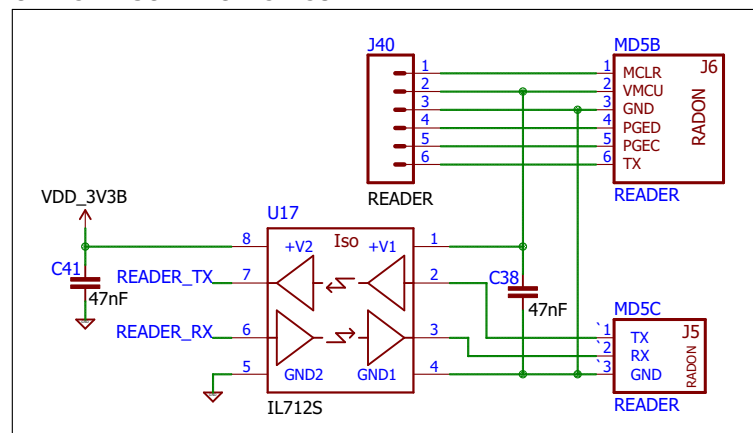
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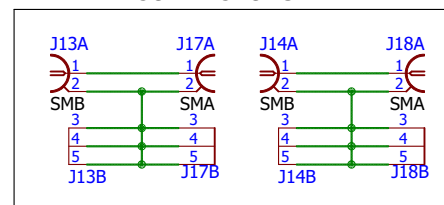
## POWER SWITCH AND CURRENT MEASUREMENT CIRCUITS



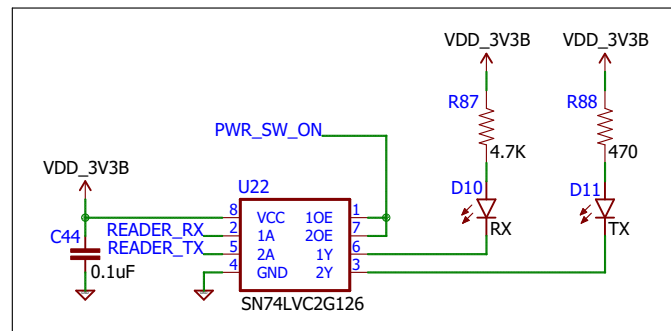
## OPTICAL ISOLATION CIRCUIT



## ANTENNA CONNECTORS



## UART ACTIVITY LED INDICATORS



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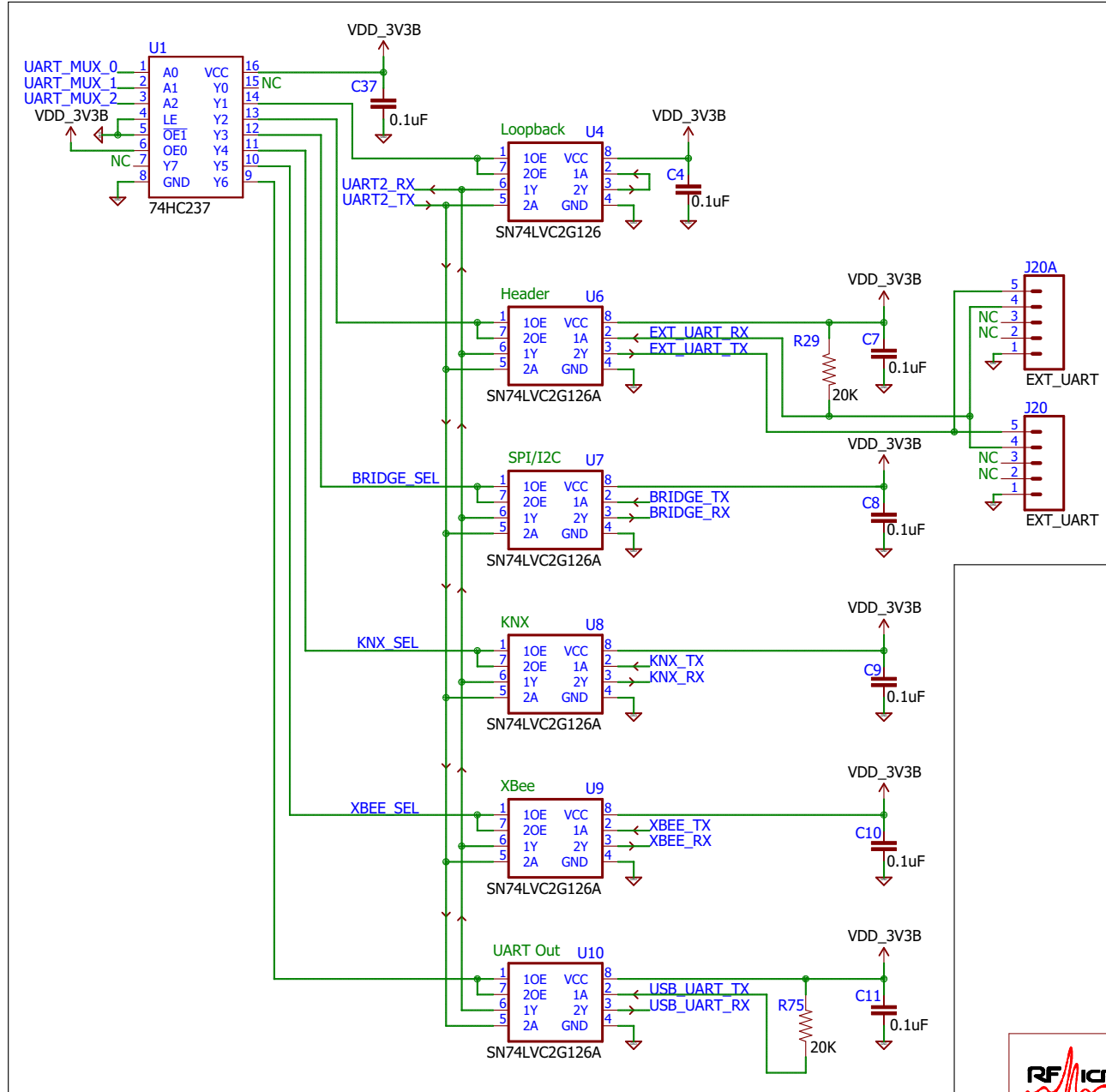
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1.1

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# UART MULTIPLEXER



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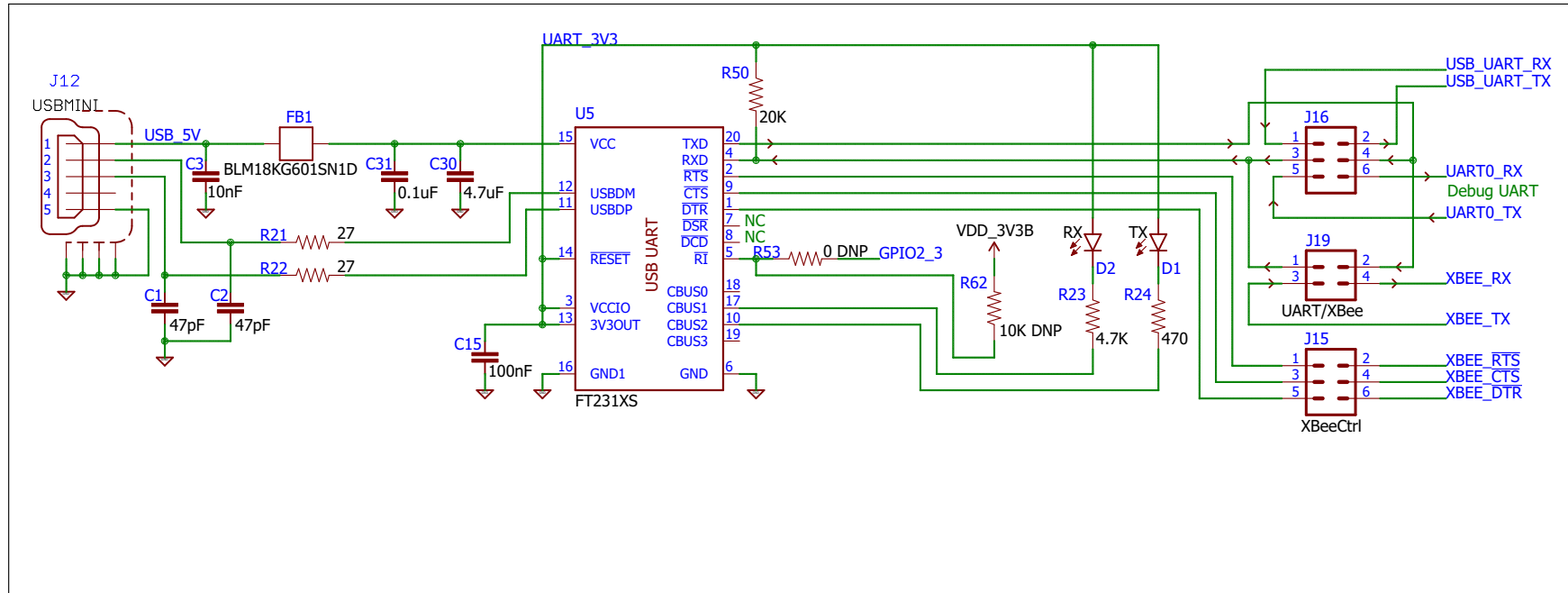
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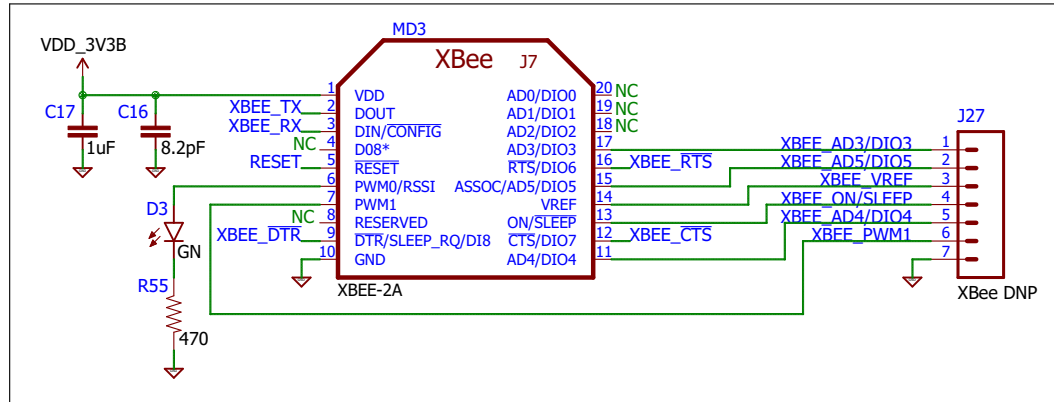
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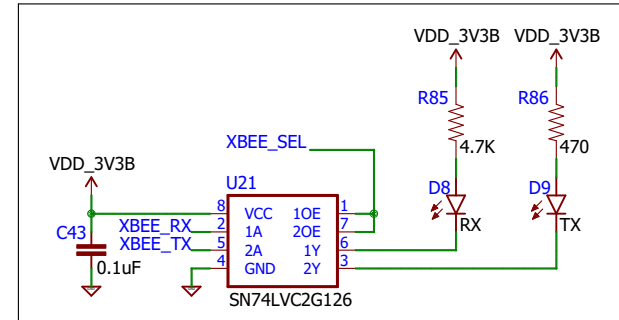
## USB-UART INTERFACE



## XBEE MODULE



## UART ACTIVITY LED INDICATORS



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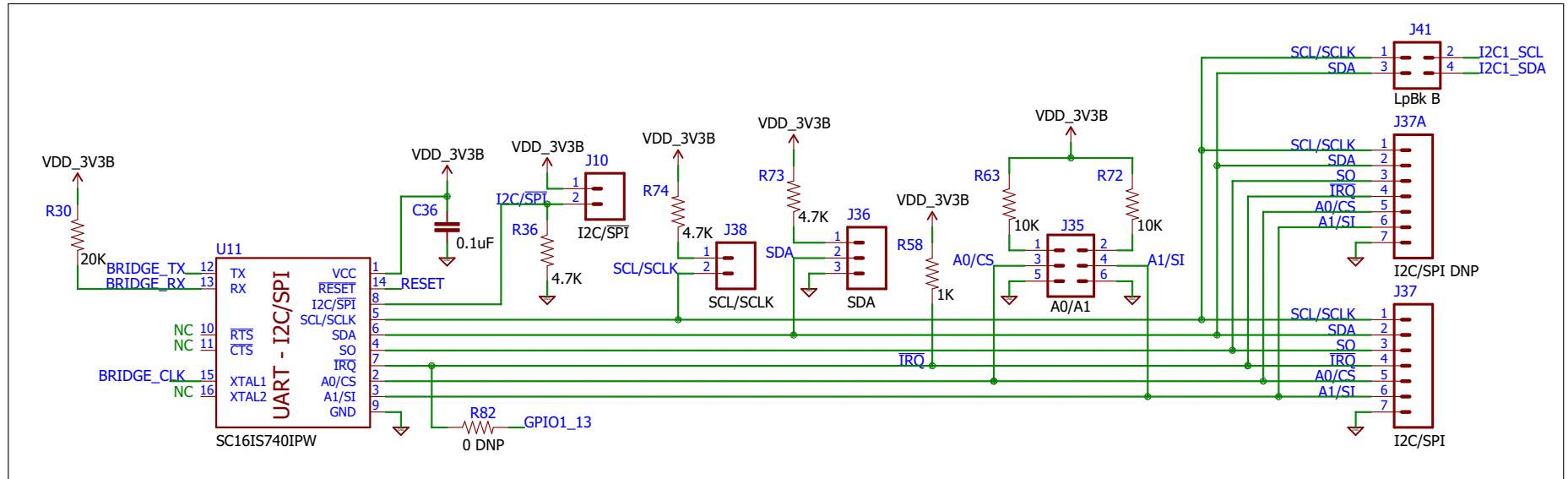
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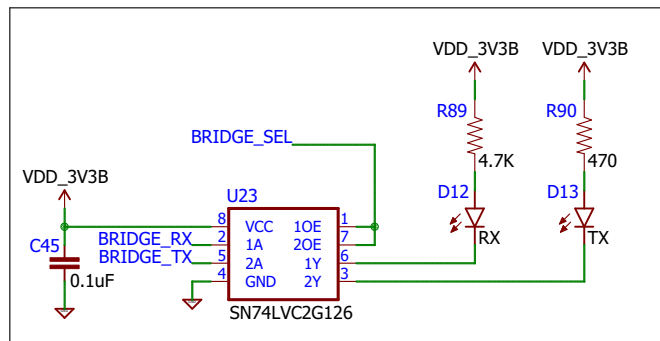
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## UART-I2C/SPI BRIDGE



## UART ACTIVITY LED INDICATORS



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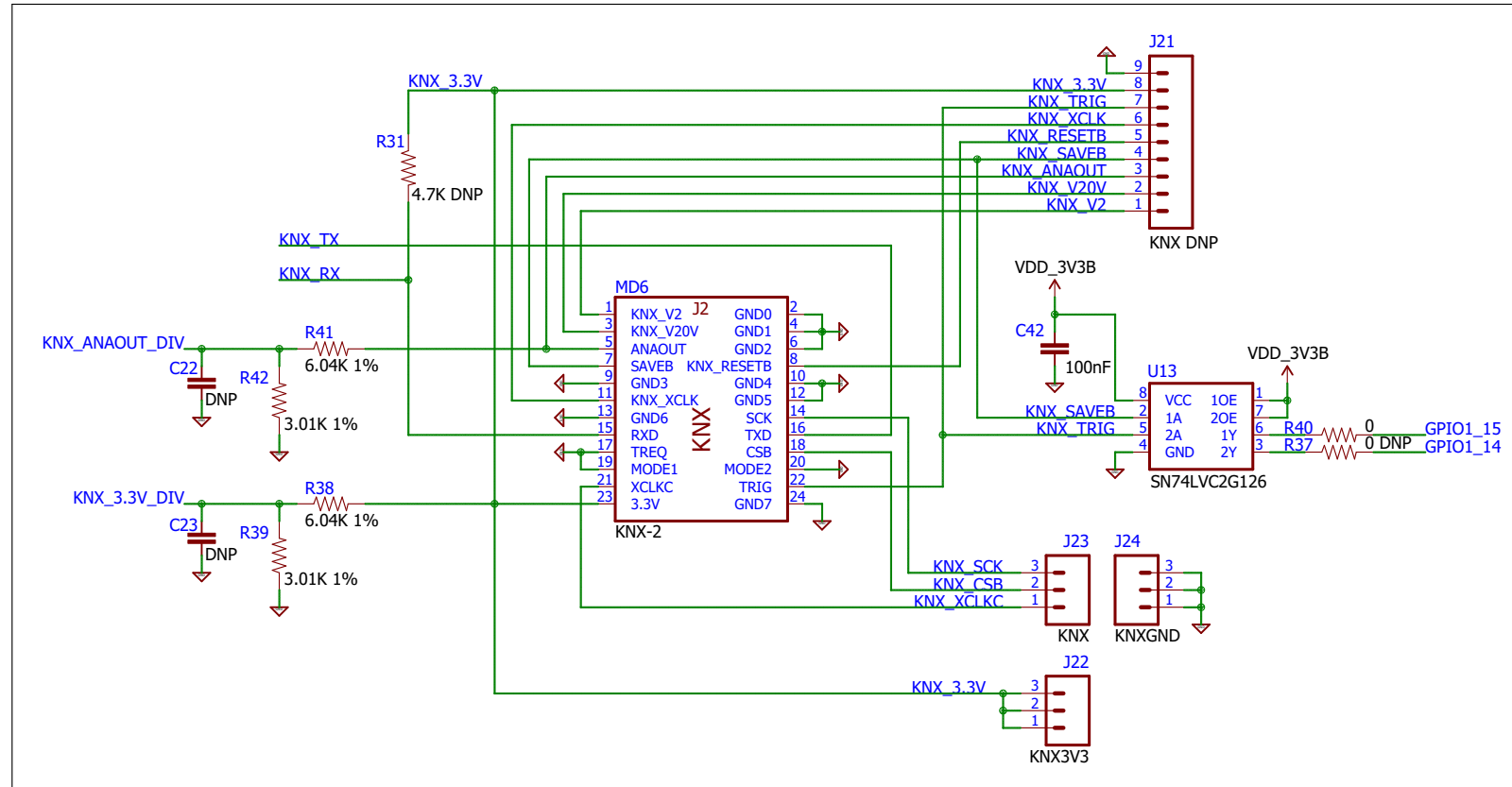
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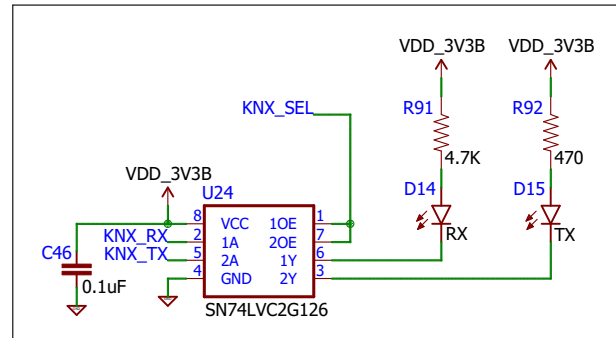
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# KNX MODULE



## UART ACTIVITY LED INDICATORS



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Document Number: KNX Module

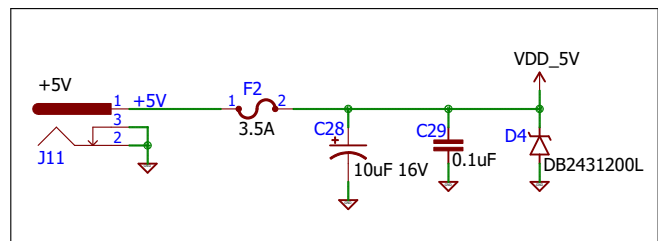
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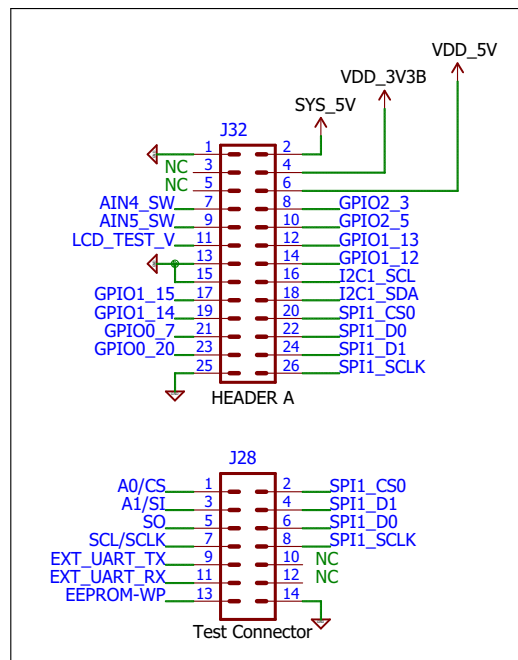
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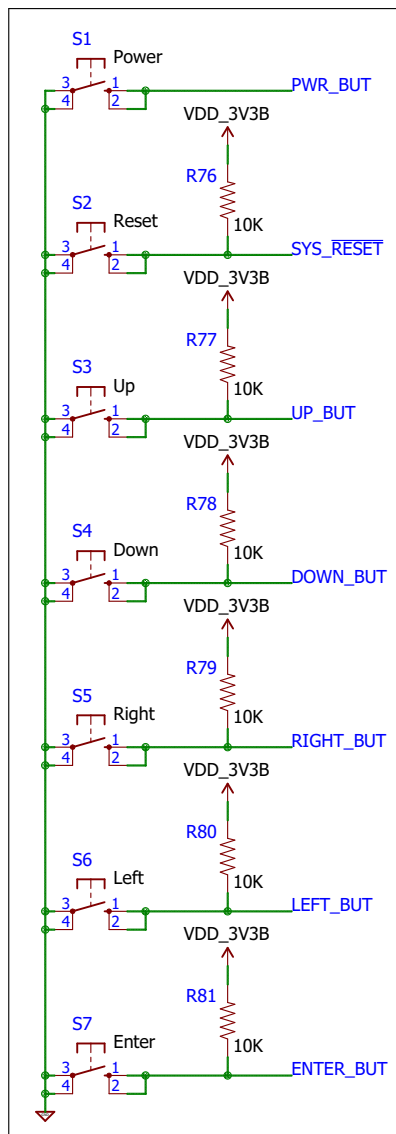
## POWER INPUT



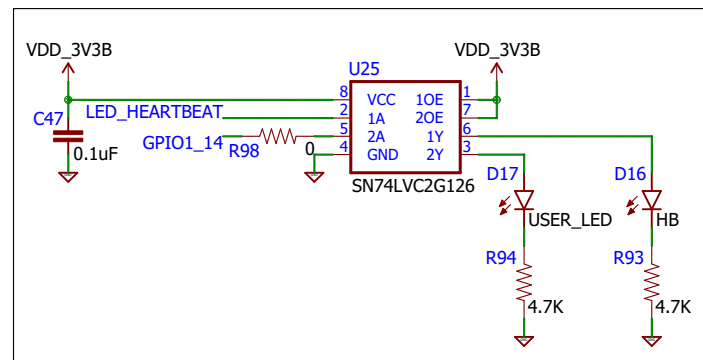
## EXTERNAL CONNECTORS



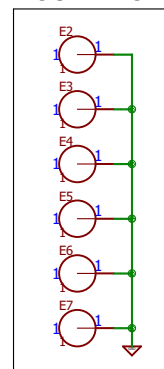
## USER BUTTONS



## LED INDICATION



## MOUNTING HOLES



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TITLE: RFMicronHermes\_1\_1

Document Number: Power Input, Connectors, Buttons, LEDs and Mounting Holes

REV: 1.1

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