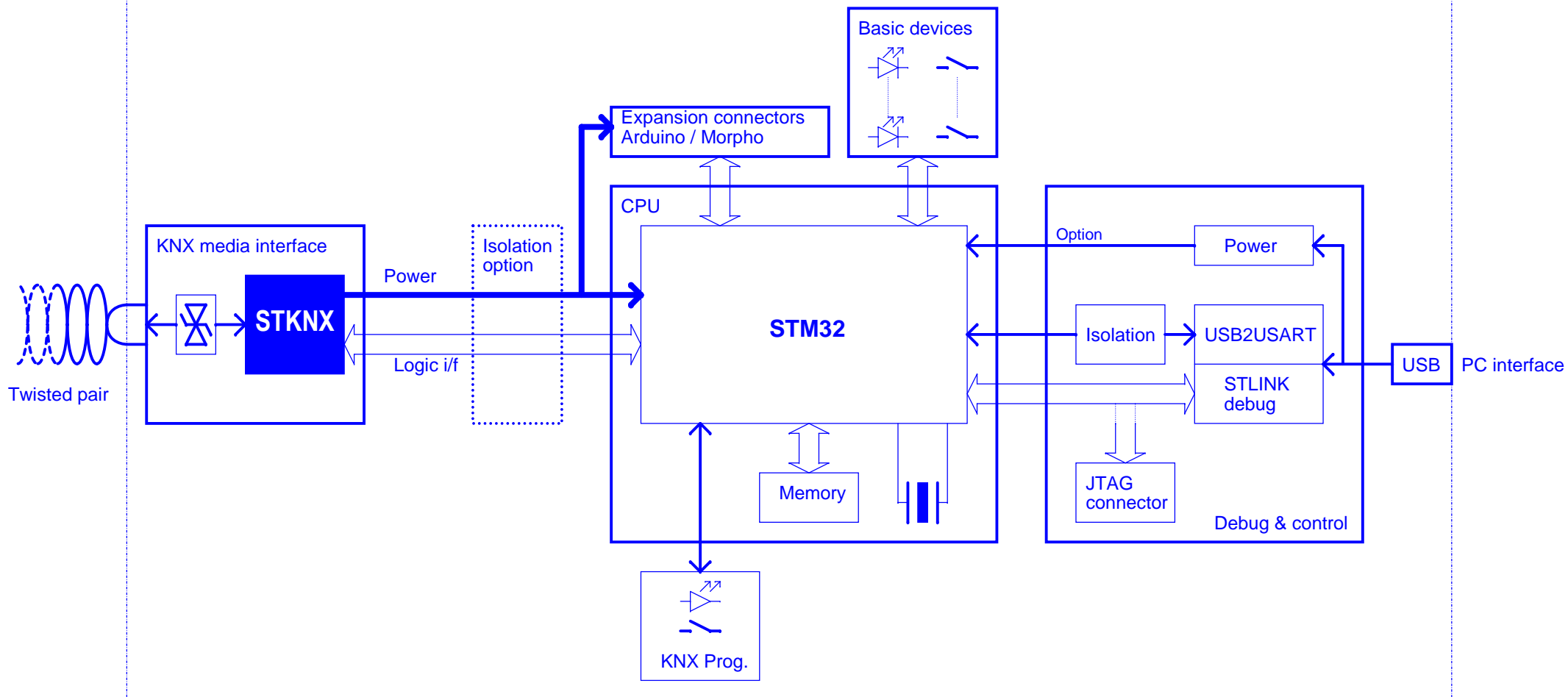


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Silkscreen (green):
 FOR EVALUATION ONLY
 NOT FCC APPROVED
 FOR RESALE

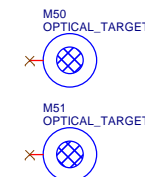
STM Logo
 KNX logo
 EVALKIT STKNX

PCBKA-REV1
 RoHS EU
 RoHS Chinese

Revision	Date	Comments
1 1 1	2017/11/16	Initial delivery
1 2 1	2018/01/31	Minor BOM updates

=>
 PCB revision =>
 BOM / revision =>
 VARIANT revision =>

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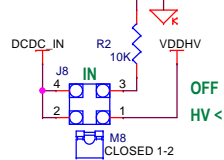


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DCDC

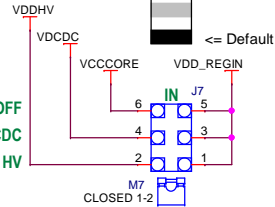
DCDC regulator input selection

Default =>

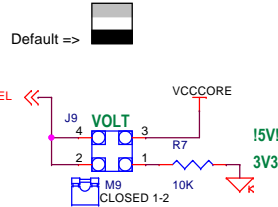


LINEAR

Linear regulator input selection



Linear regulator voltage selection

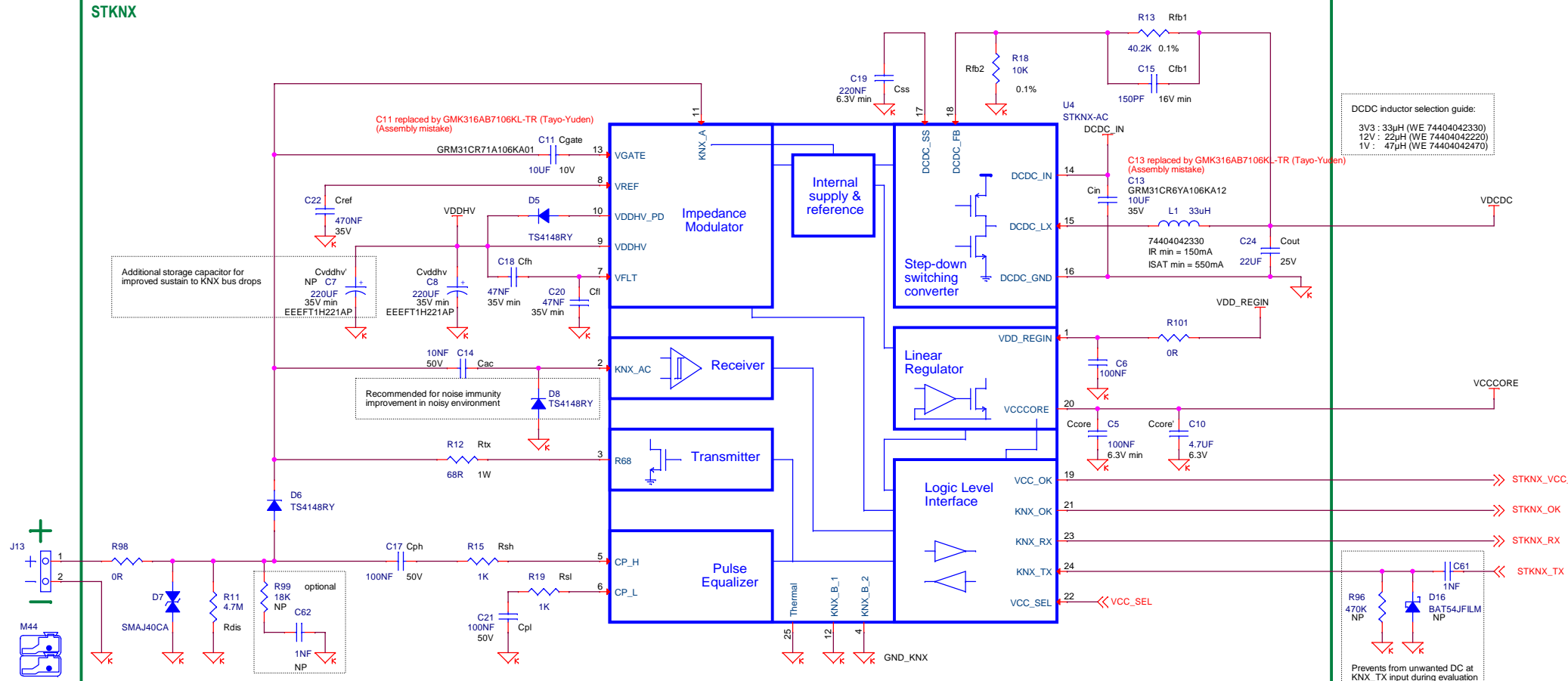


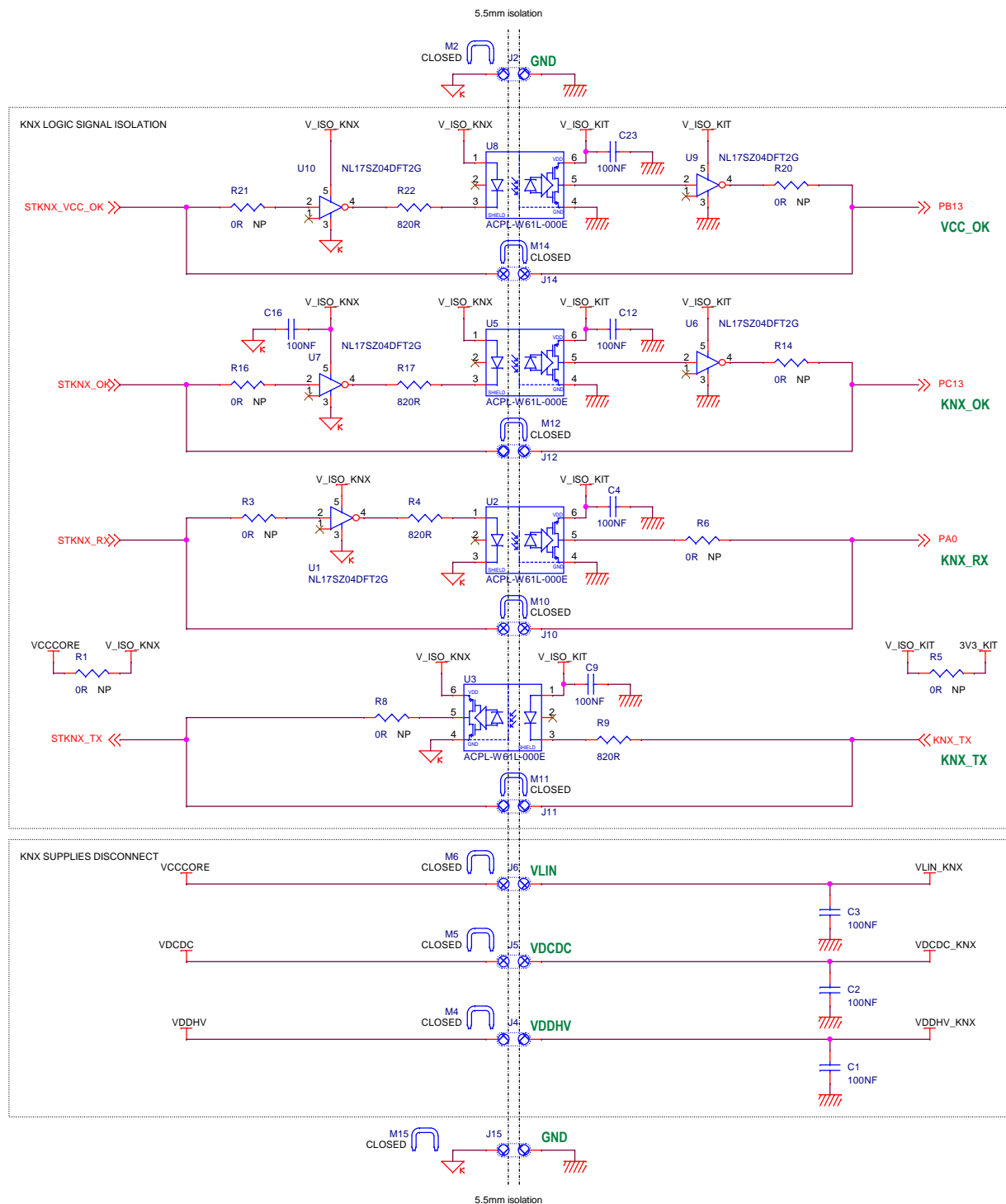
DCDC feedback setting:

3V3 : 13 kohm to GND; 30 kohm // 180pF to VDDCORE
5V : 10 kohm to GND; 40.2 kohm // 150pF to VDDCORE
7.5V (min value for connection to VDD_REGIN) : 20 kohm to GND; 130 kohm // 47pF to VDDCORE

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ISOLATED mode:

- * remove every x9 jumpers shortcutting supplies, GND and opto-couplers
- place x2 resistors connecting resp. VCCCORE-V_ISO_KNX and V_ISO_KIT-3V3_KIT
- * KNX_RX, KNX_OK, VCC_OK:
- place serial resistors at inverters input and output
- * KNX_TX:
- place the serial resistor at opto-coupler output

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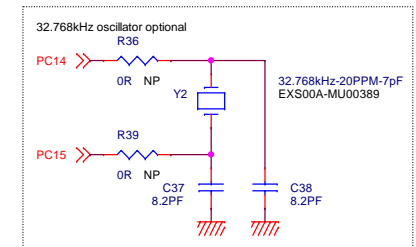
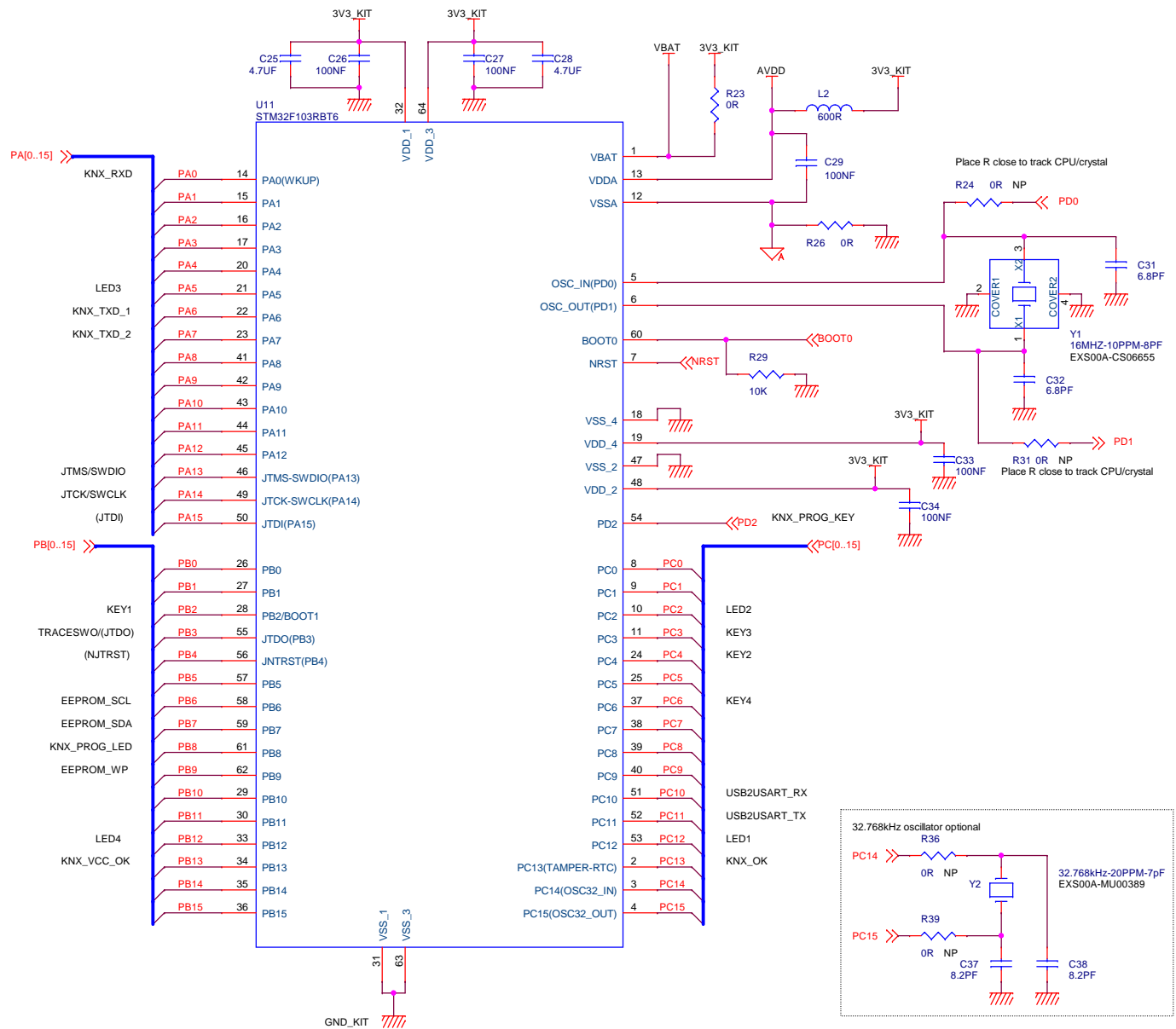
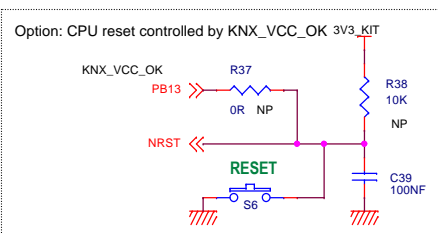
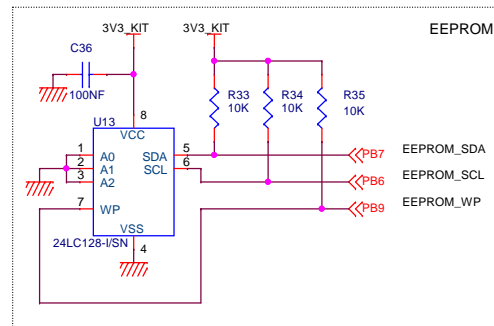
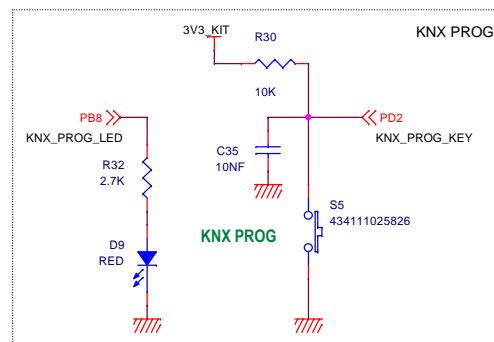
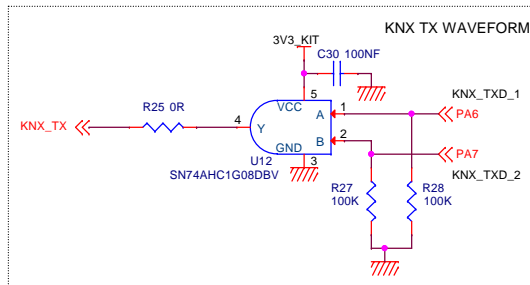
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KNX CPU



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JUMPERS USE

Arduino supply selection line =>
EVALKIT supply selection line =>

VLIN / VDDHV connect
VDCDC connect

Jumpers positions examples :

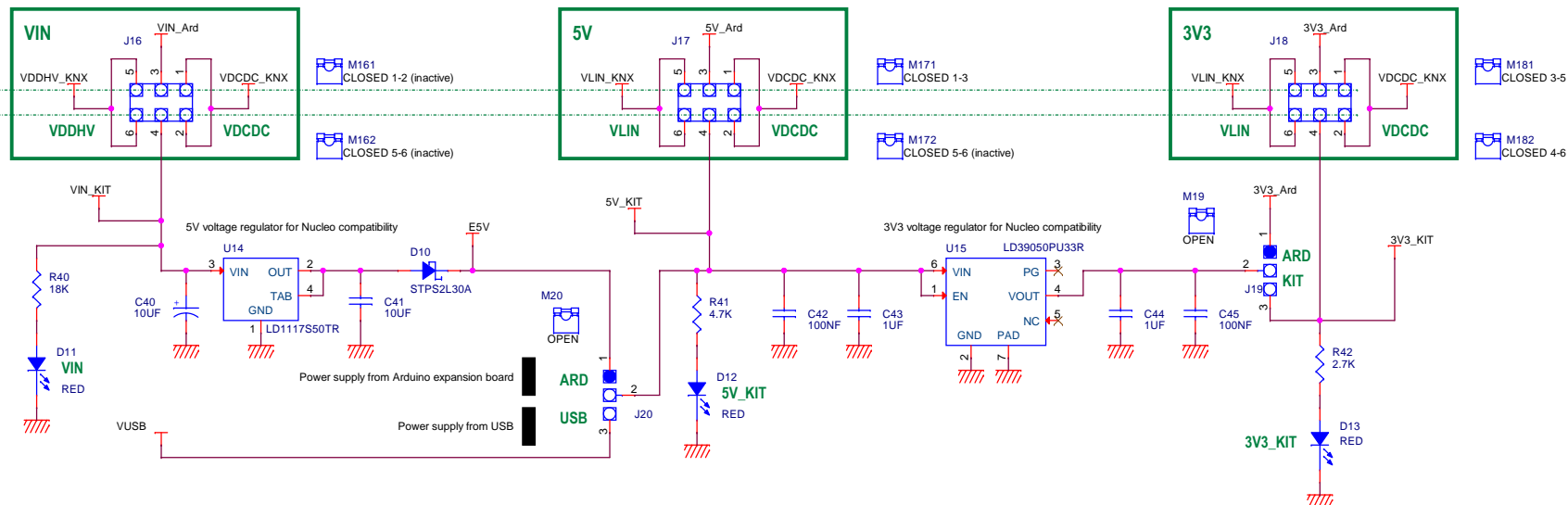
FW debug (USB power)

Default

Dimming demo with LED16A1 board

POWER MANAGEMENT

Arduino expansion board supply selection => **ARD**
EVALKITSTKNX supply selection => **KIT**



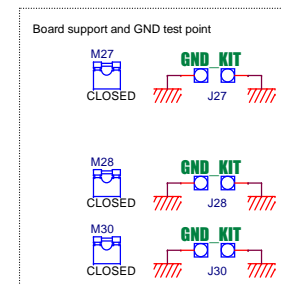
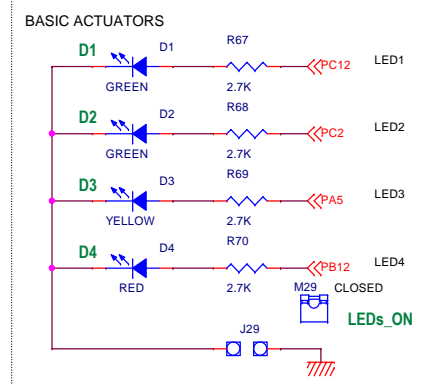
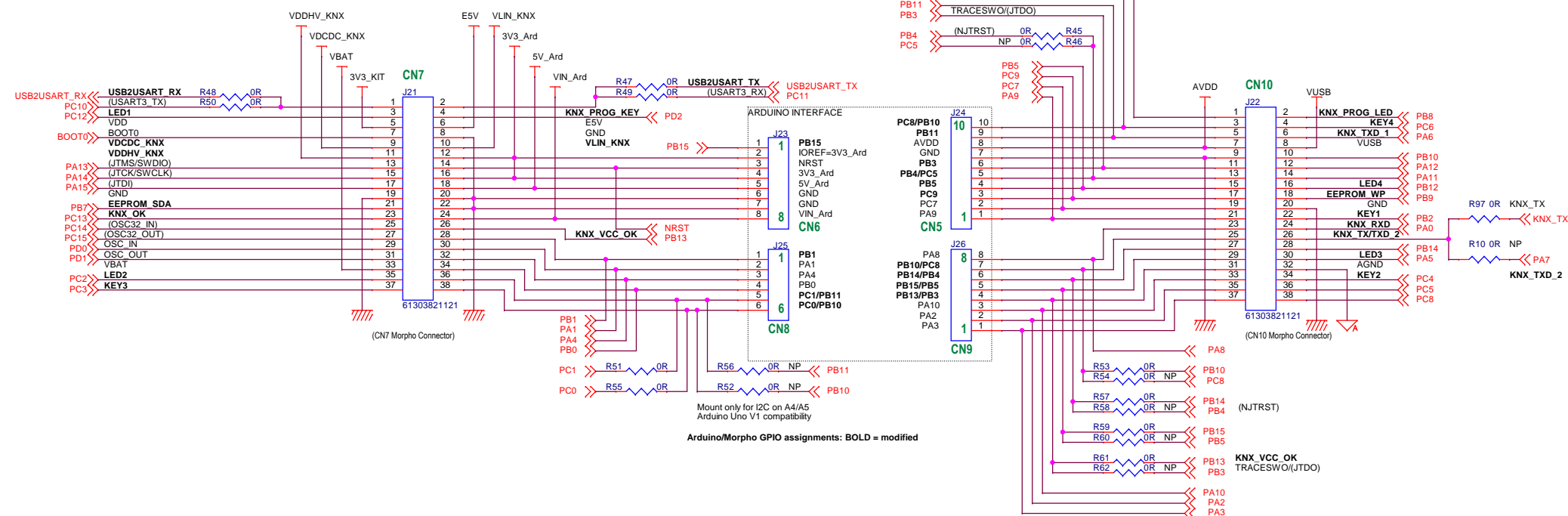
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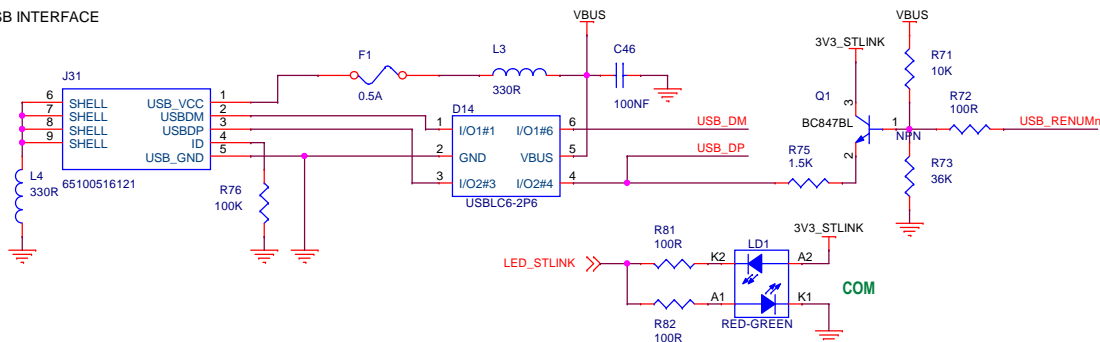
Title **STKNX Evaluation and Development kit**

Size A3 Document Number **Power management** Rev 121

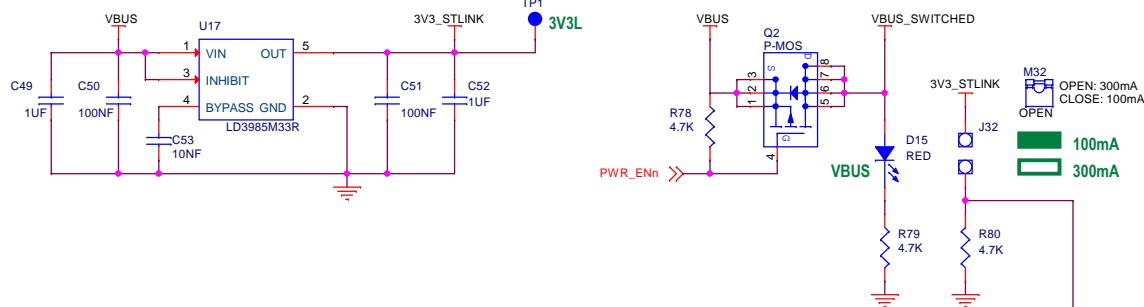
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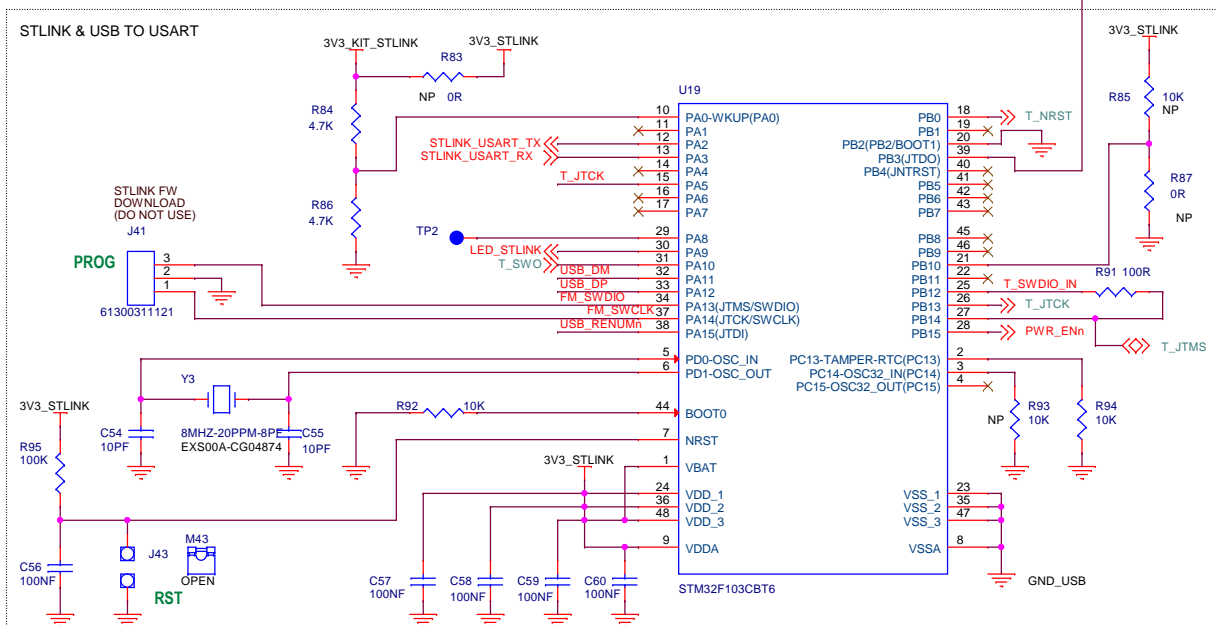
USB INTERFACE



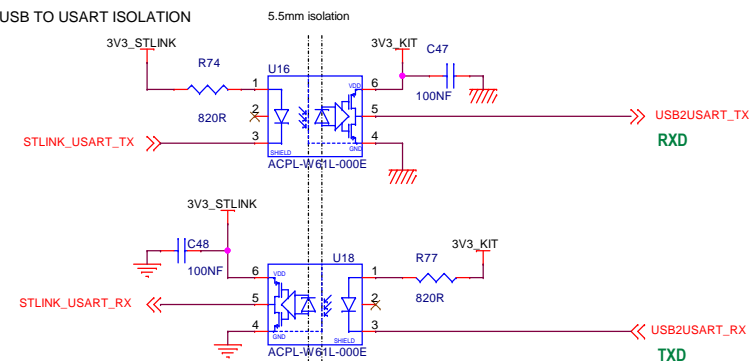
USB POWER MANAGEMENT



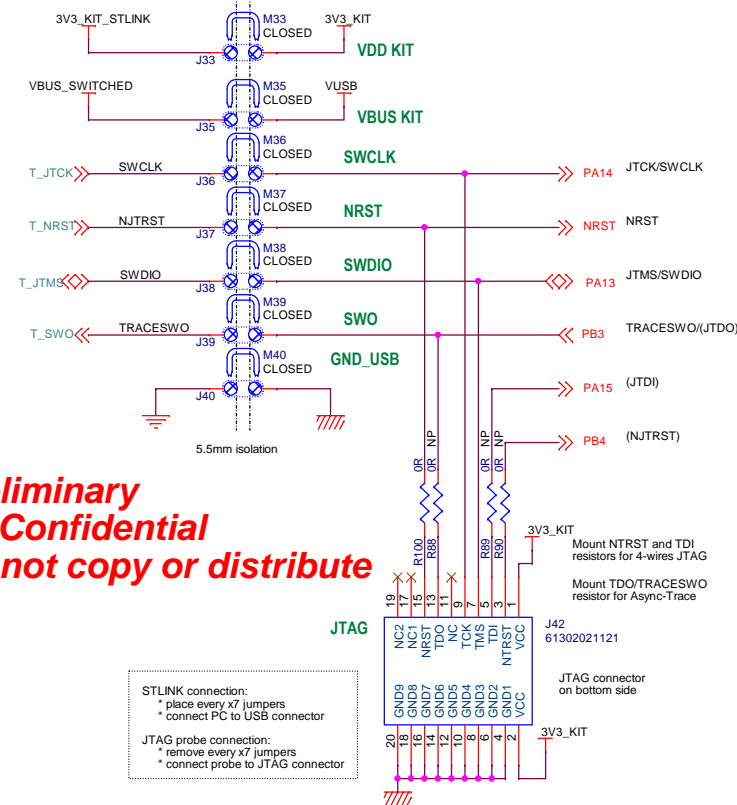
STLINK & USB TO USART



USB TO USART ISOLATION



DEBUG INTERFACE

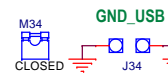


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STLINK connection:
* place every x7 jumpers
* connect PC to USB connector

JTAG probe connection:
* remove every x7 jumpers
* connect probe to JTAG connector

Board support and GND test point



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