

Page 2: 2FR Module, External QSPI and VIO Control

Page 3: Pin Access and Expansion Connectors

Page 4: LEDs and Push-buttons

Page 5: JTAG Debug Interface and Boot Control

Page 6: 100/10Mbps Ethernet interface

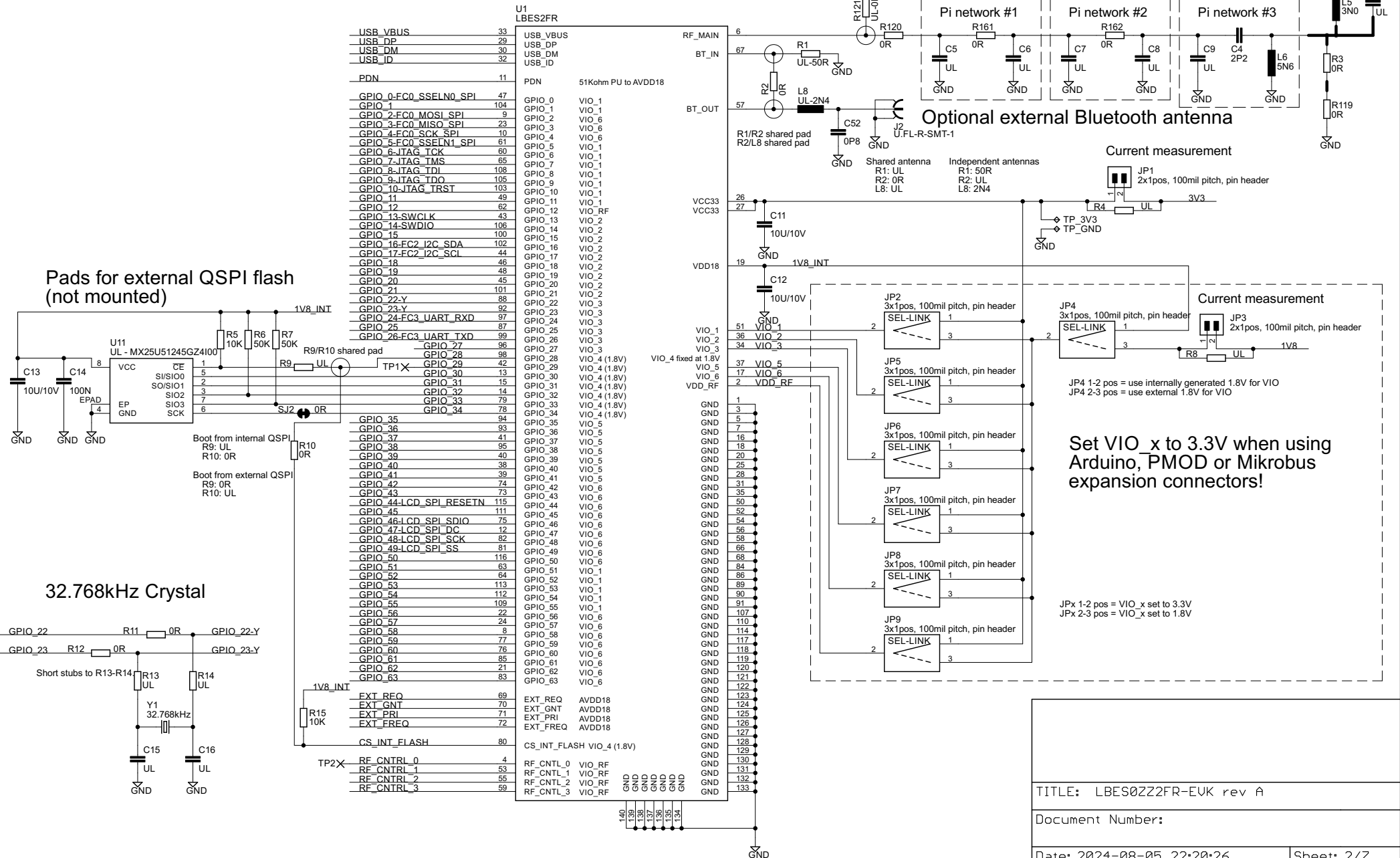
Page 7: USB and UART interfaces, Power Supply

UL = UnLoaded = normally not mounted component.

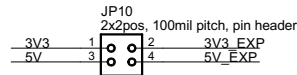
Default jumper settings are indicated in the schematic.
However, always check jumper positions on actual boards
since there is no guarantee that all jumpers are in default place.

Rev A Silk screen corrections. R103 mounted. L8/C52 added. Added TP_3V3 and TP_GND.	
Rev PA5 Added Ethernet interface.	
Rev PA1-PA4 Original proposal.	
<C> Murata Manufacturing Co., Ltd.	
TITLE: LBES0ZZ2FR-EVK rev A	
Document Number:	
Date: 2024-08-05 22:20:26	Sheet: 1/7

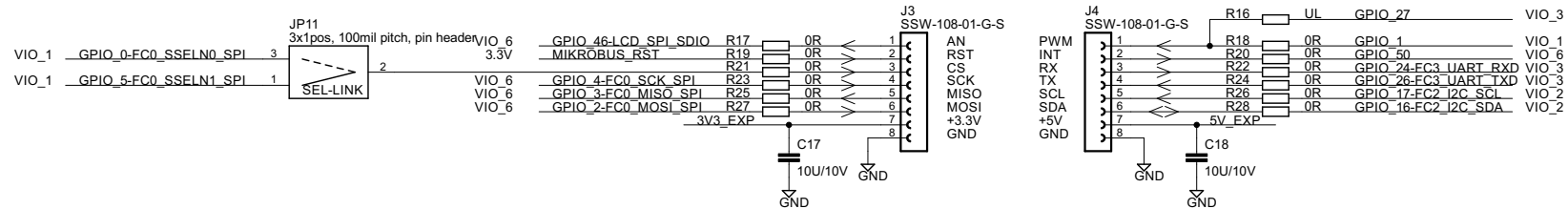
2FR Module, External QSPI and VIO Control



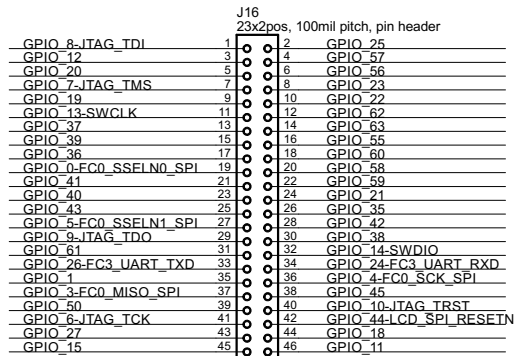
Pin Access and Expansion Connectors



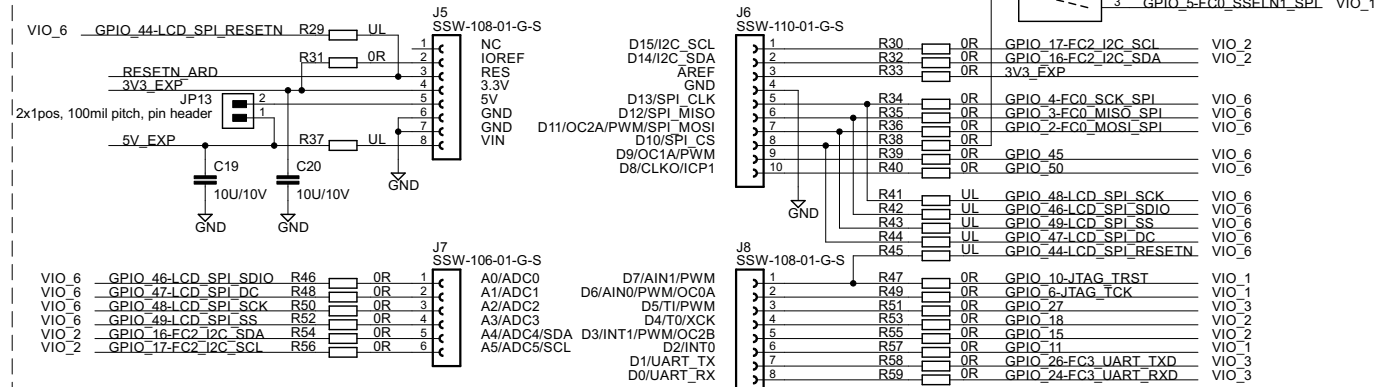
Mikrobus/Click Module Interface



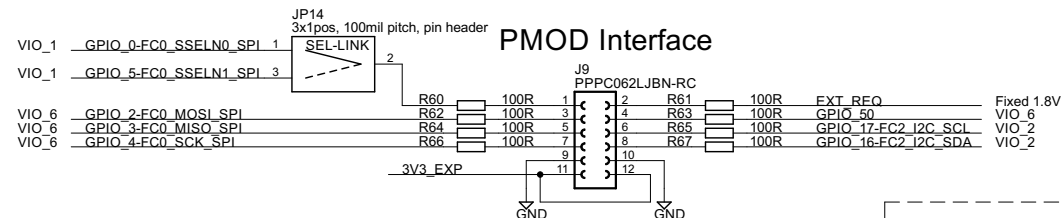
Expansion Pads



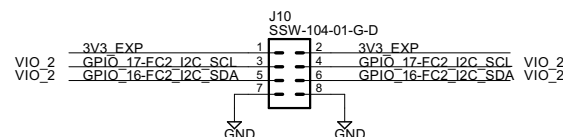
Arduino Shield receptacles R3



PMOD Interface



I2C Header



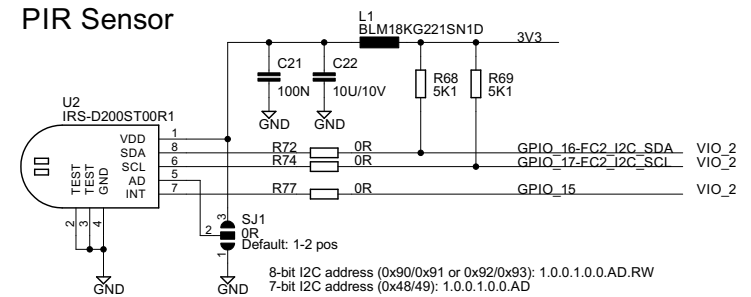
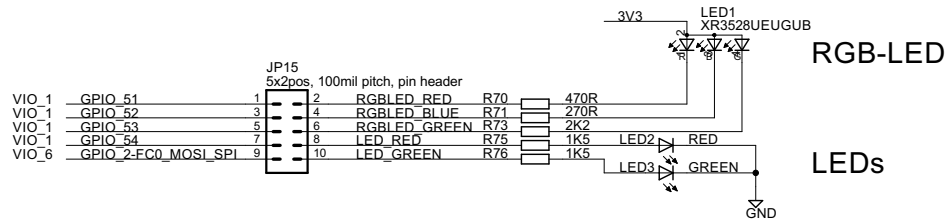
TITLE: LBES0ZZ2FR-EUK rev A

Document Number:

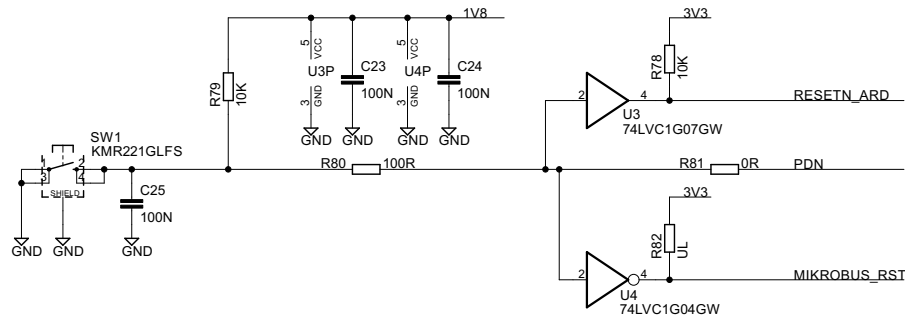
Date: 2024-08-05 22:20:26

Sheet: 3/7

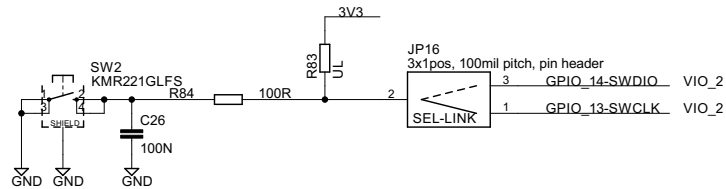
LEDs, Push-buttons and Sensors



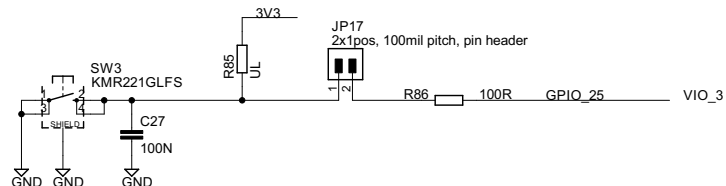
Reset push-button



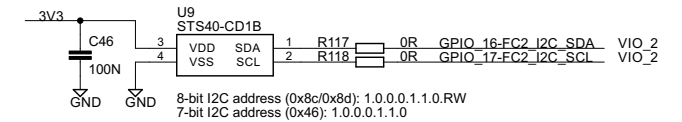
User push-button #1



User push-button #2



Temperature Sensor



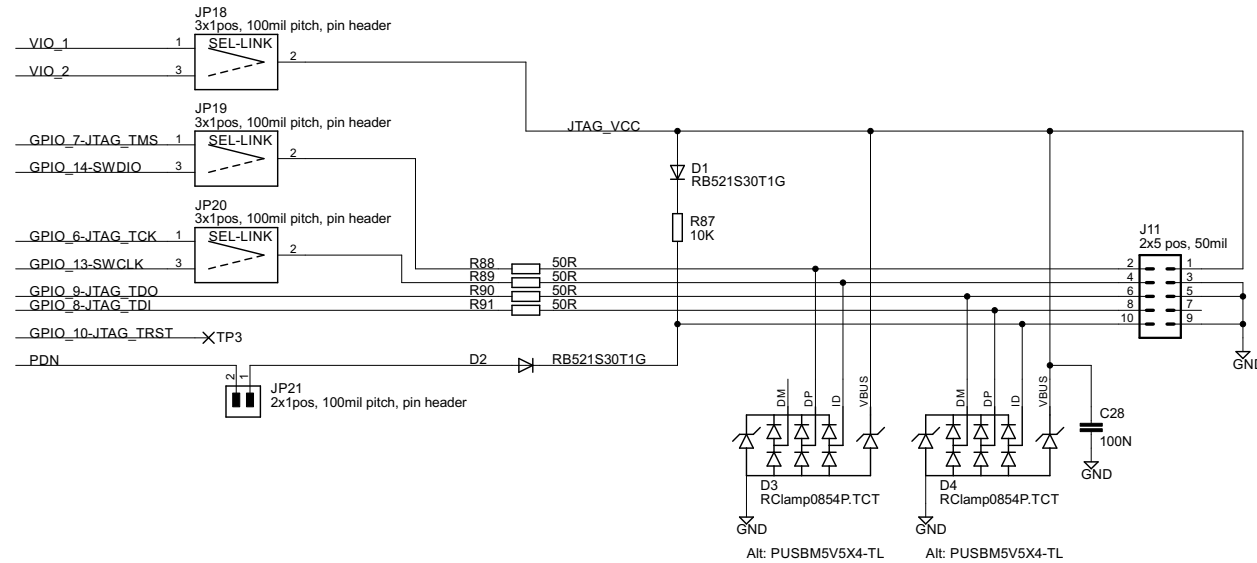
TITLE: LBES0ZZ2FR-EUK rev A

Document Number:

Date: 2024-08-05 22:20:26

Sheet: 4/7

JTAG Debug Interface and Boot Control



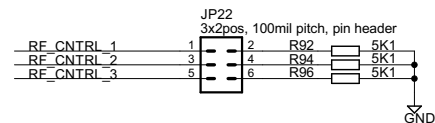
ARM 10-pin interface Serial Wire Mode
10 pos (50 mil pitch) connector

2-SWDIO 1-VCC
4-SWCLK 3-GND
6-SWO 5-GND
8-N/U 7-Optional ISP_ENABLE
10-RESET 9-GND

ARM 10-pin interface JTAG Mode

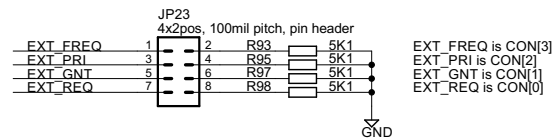
2-TMS 1-VCC
4-TCLK 3-GND
6-TDO 5-GND
8-TDI 7-(RTCK)
10-RESET 9-GND

Configuration



RF_CNTRL_2:
Open = debug uses JTAG interface (default)
Short = debug uses SWD interface

Boot Control



EXT_FREQ is CON[3]
EXT_PRI is CON[2]
EXT_GNT is CON[1]
EXT_REQ is CON[0]

CON[3:0]	Boot source
1 1 1 1	QSPI flash (default)
1 1 1 0	ISP boot
1 1 0 1	Serial boot
1 1 0 0	SDIO boot
1 0 1 1	USB boot
1 0 1 0	SPI E2PROM boot
All other combinations	Invalid

0 = jumper inserted in position
1 = no jumper in position

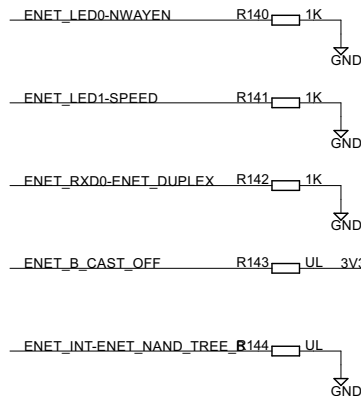
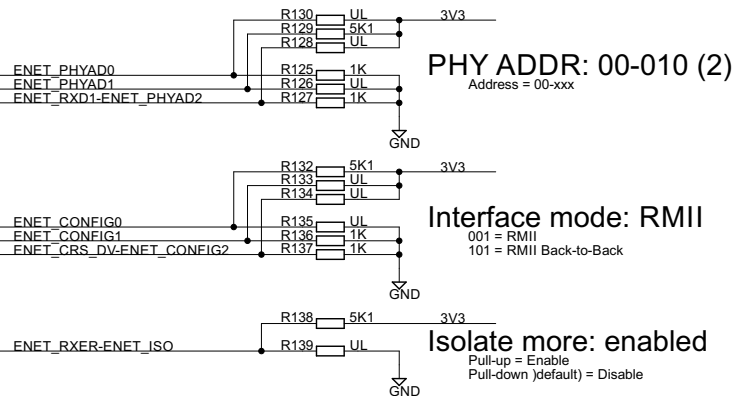
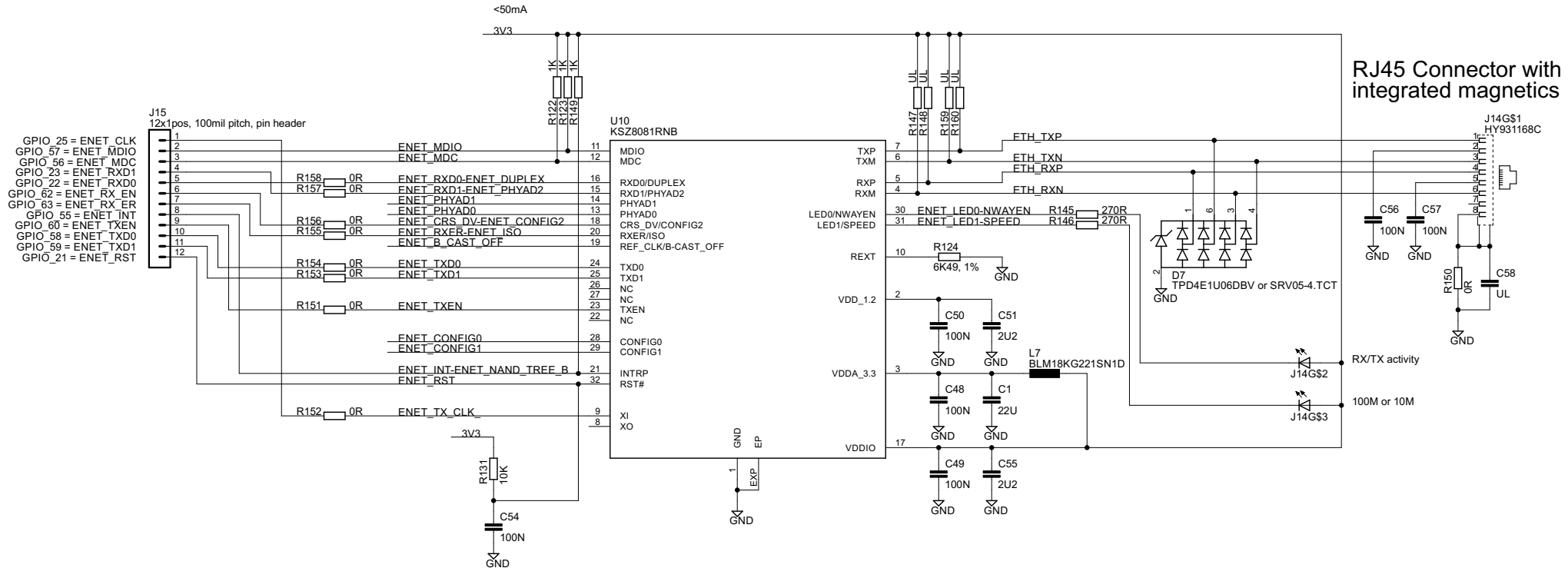
TITLE: LBES0ZZ2FR-EUK rev A

Document Number:

Date: 2024-08-05 22:20:26

Sheet: 5/7

100/10Mbps Ethernet interface



TITLE: LBES0ZZ2FR-EUK rev A

Document Number:

Date: 2024-08-05 22:20:26

Sheet: 6/7

