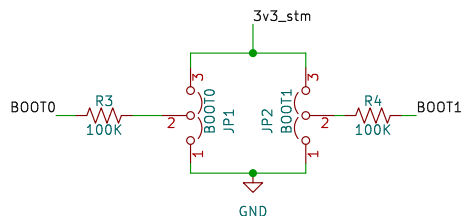


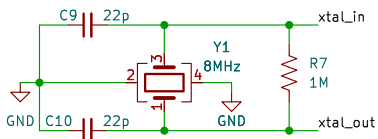
| | | |
|----------------------------|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: / | | |
| File: BIM_PCB.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A3 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 1/17 |

STM32F103C8T6 MCU

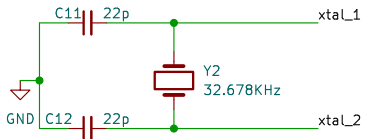
BOOT SELECT



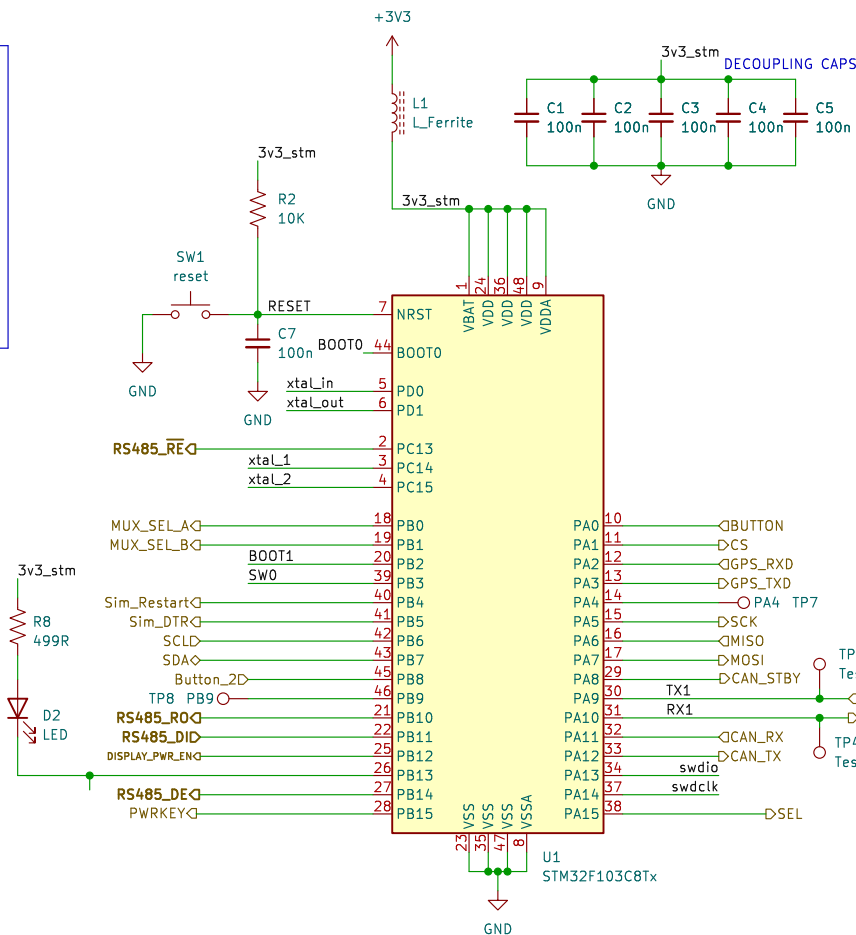
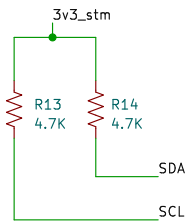
HSE OSCILLATOR



LPE OSCILLATOR

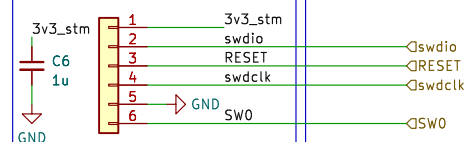


I2C PULLUPS

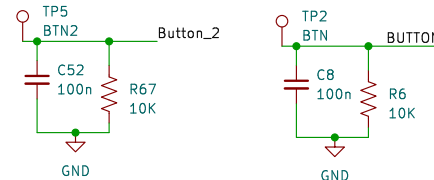


SWD PINS

J3
Conn_01x06



Programming conn to outside



- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

BIM BOARD
Designed By: Robert Mutura
Reviewed by: Timothy Kyalo

GEVITON

Sheet: /STM32FC8T6_MCU/
File: STMFC8T6_MCU.kicad_sch

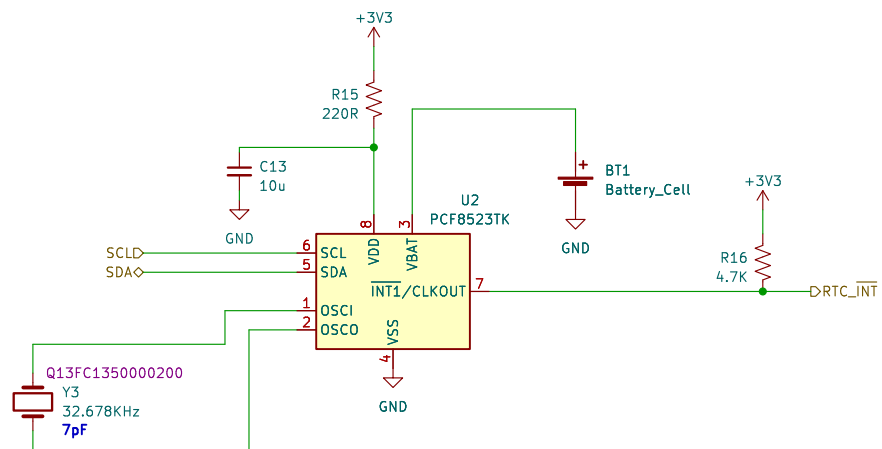
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Size: A4 Date: 2023-12-06
KiCad E.D.A. kicad 7.0.2

Rev: REV 2.0.0
Id: 2/17

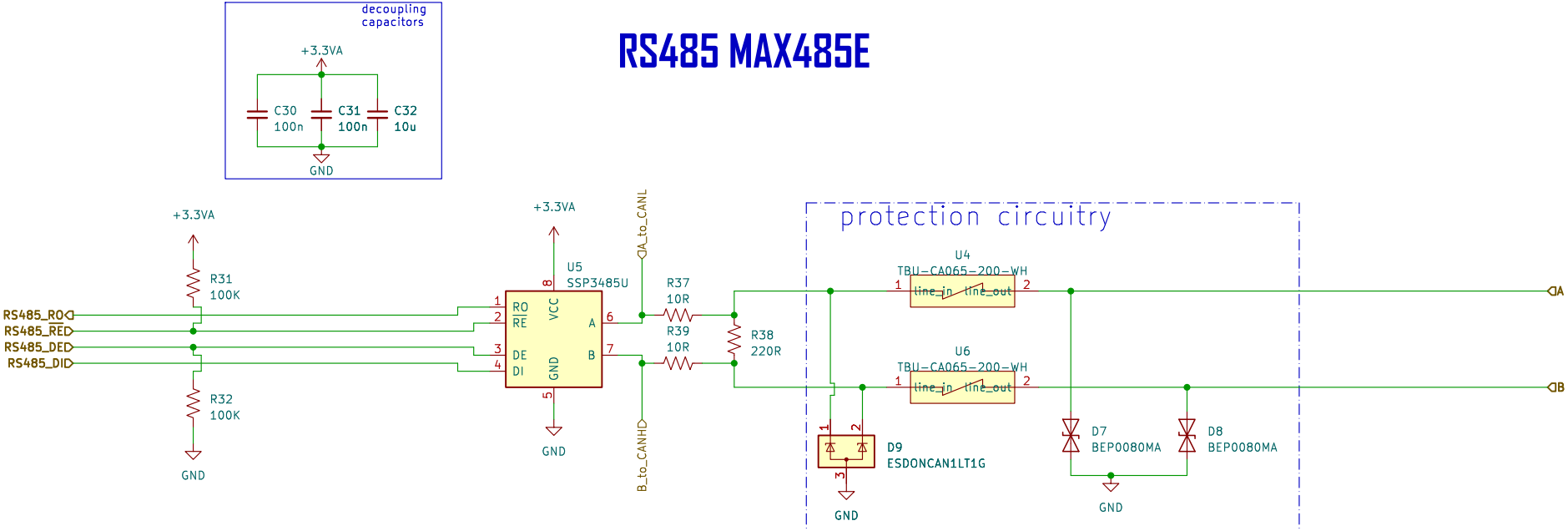
PCF8523

RTC IC



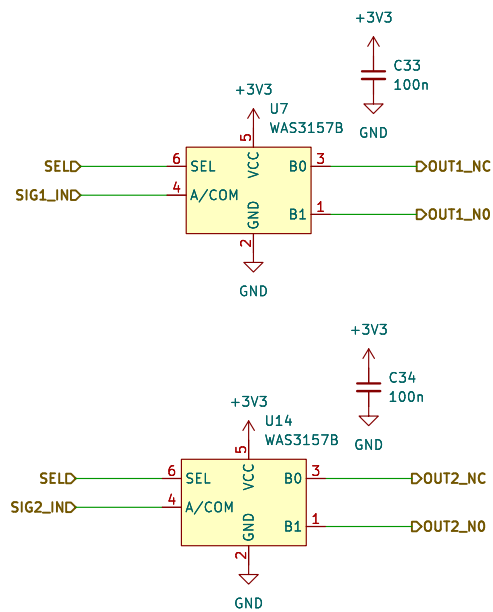
| | | |
|---------------------------------------|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /RTC_MODULE_IC_PCF8523/ | | |
| File: RTC_MODULE_IC_PCF8523.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 3/17 |

RS485 MAX485



| | |
|------------------------------|-----------------------|
| BIM BOARD | |
| Designed By: Robert Mutura | |
| Reviewed by: Timothy Kyalo | |
| GEVITON | |
| Sheet: /RS485_MAX485/ | |
| File: RS485_MAX485.kicad_sch | |
| Title: BIM BOARD | |
| Size: A4 | Date: 2023-12-06 |
| KiCad E.D.A. kicad 7.0.2 | Rev: REV 2.0.0 |
| | Id: 7/17 |

ANALOG SWITCH / MULTIPLEXER IC



Sheet: /MULTIPLEXER_SWITCH_WAS3157B-6/
File: MULTIPLEXER_SWITCH_WAS3157B-6.kicad_sch

Title:

Size: A4

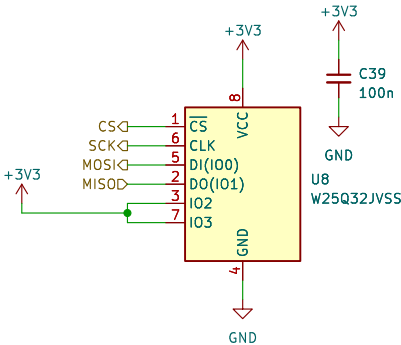
Date:

Rev:

KiCad E.D.A. kicad 7.0.2

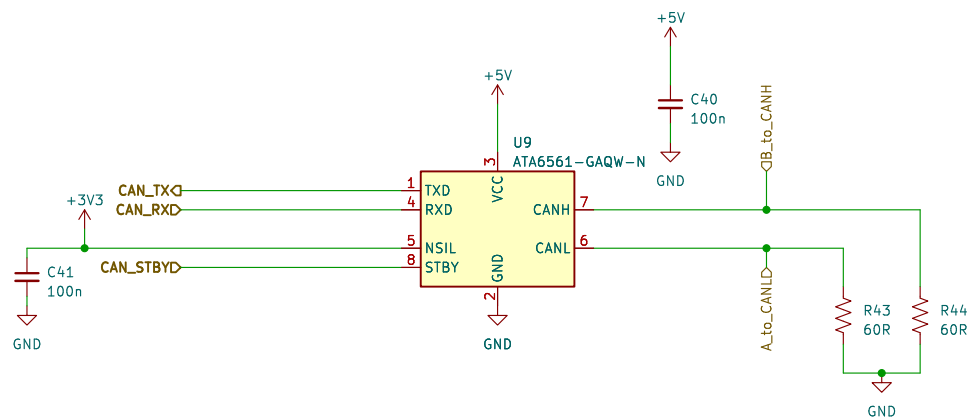
Id: 8/17

FLASH MEMEORY



| | | |
|------------------------------|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /FLASH_MEMORY/ | | |
| File: FLASH_MEMORY.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | Id: 9/17 | |

CAN TRANSCEIVER
ATA6561



| | | |
|---|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /CAN_TRANSCEIVER_ATA6561/ | | |
| File: CAN_TRANSCEIVER_ATA6561.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | Id: 10/17 | |



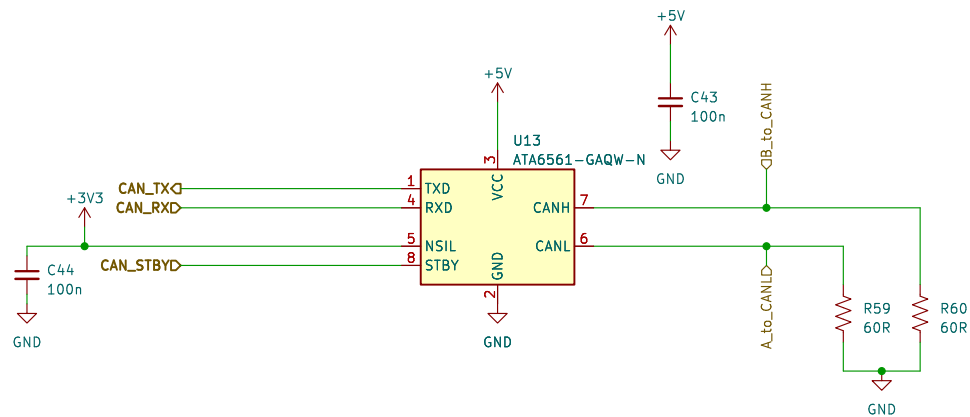
BIM BOARD
Designed By: Robert Mutura
Reviewed by: Timothy Kyalo

GEVITON
Sheet: /RS485_MAX486/
File: RS485_MAX485.kicad_sch

Title: BIM BOARD

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| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. | kicad 7.0.2 | Id: 15/17 |

CAN TRANSCEIVER ATA6561



BIM BOARD
Designed By: Robert Mutura
Reviewed by: Timothy Kyalo

GEVITON

Sheet: /CAN_TRANSCEIVER_ATA6562/
File: CAN_TRANSCEIVER_ATA6561.kicad_sch

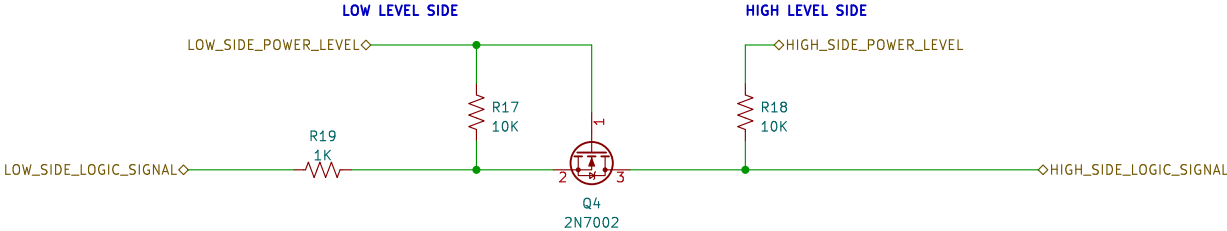
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| Size: A4 | Date: 2023-12-06 |
| KiCad E.D.A. kicad 7.0.2 | |

Rev: REV 2.0.0
Id: 16/17

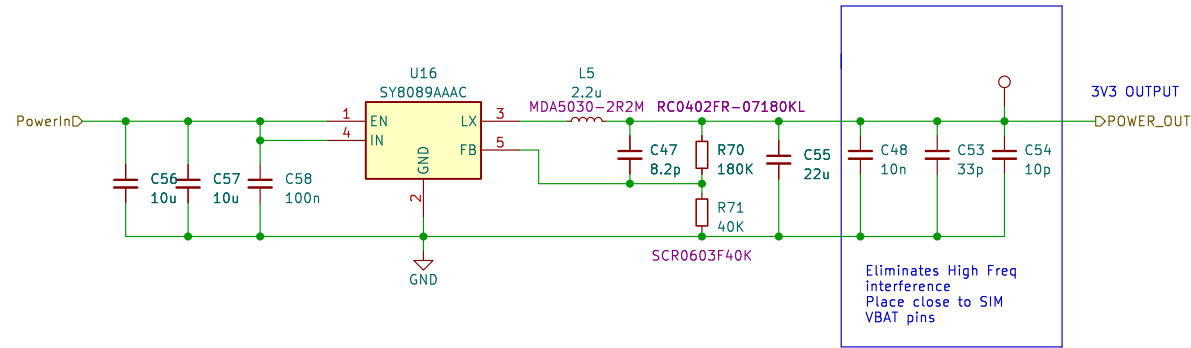
BI-DIRECTIONAL LEVEL TRANSLATOR

MOSFET - IMPLEMENTATION



| | | |
|---|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /A9G_GSM_GPRS_MODULE/MOSFET_LOGIC_LEVEL_TRANSLATOR6/ | | |
| File: MOSFET_LOGIC_LEVEL_TRANSLATOR.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 17/17 |

SIM MODULE POWER SUPPLY 4.2V/2A



Sheet: /SY8089_BUCK_CONVERTER/
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Title:

Size: A4

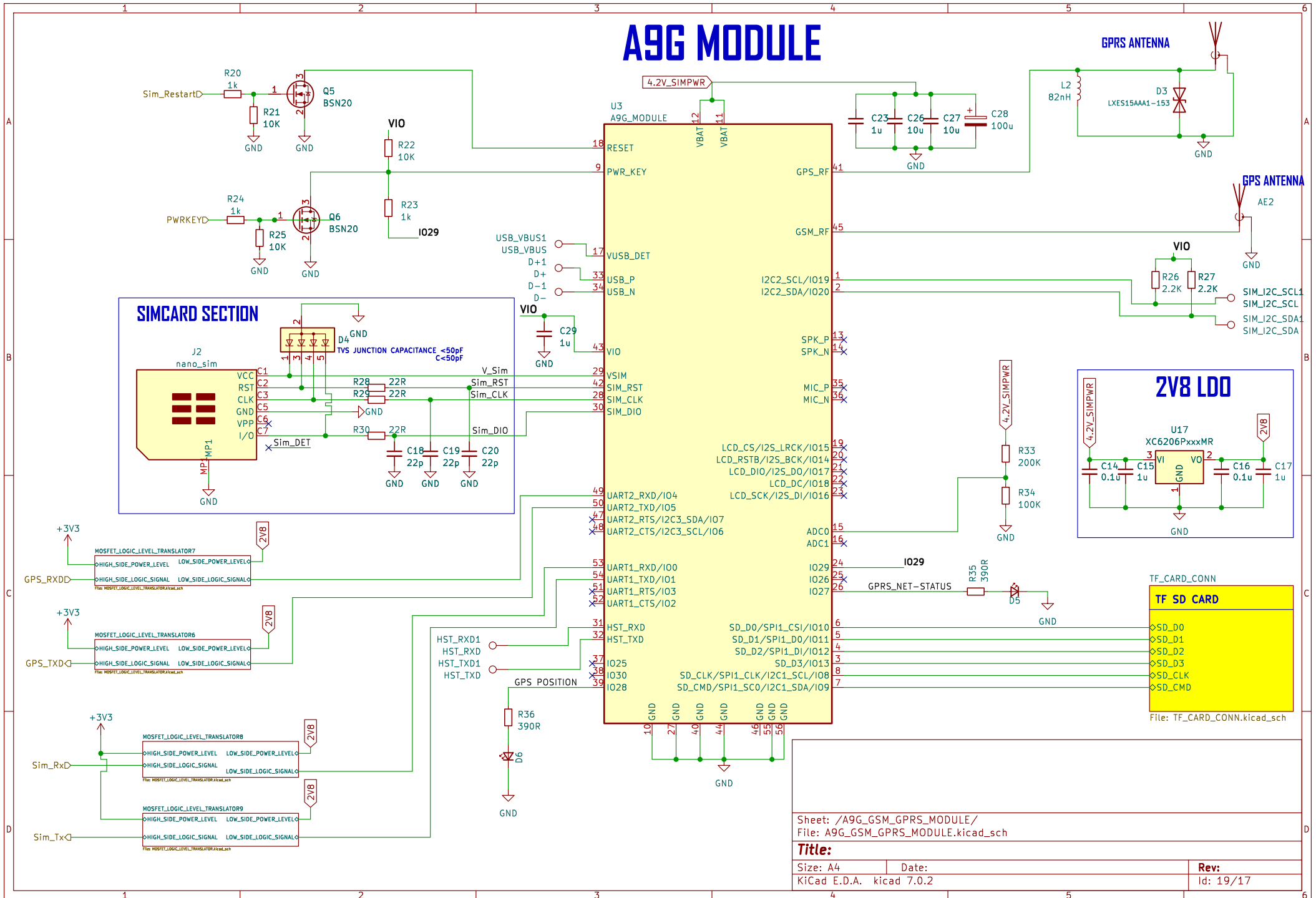
Date:

KiCad E.D.A. kicad 7.0.2

Rev:

Id: 18/17

A9G MODULE



Sheet: /A9G_GSM_GPRS_MODULE/
File: A9G_GSM_GPRS_MODULE.kicad_sch

Title:

Size: A4

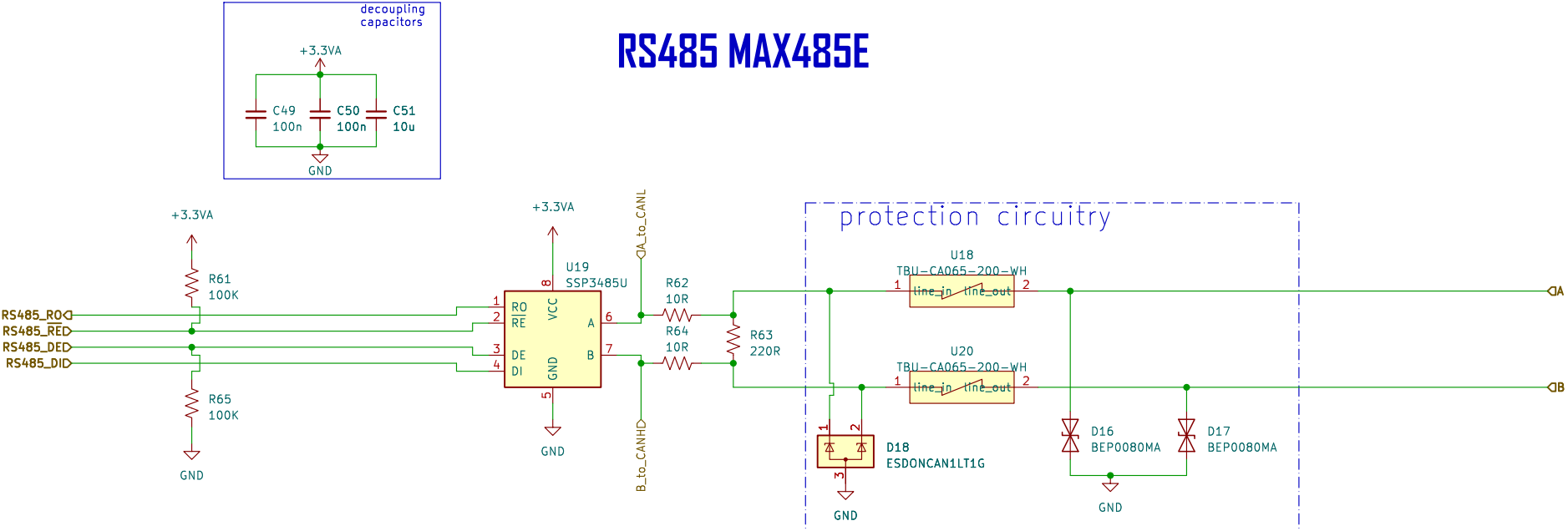
Date:

KiCad E.D.A. kicad 7.0.2

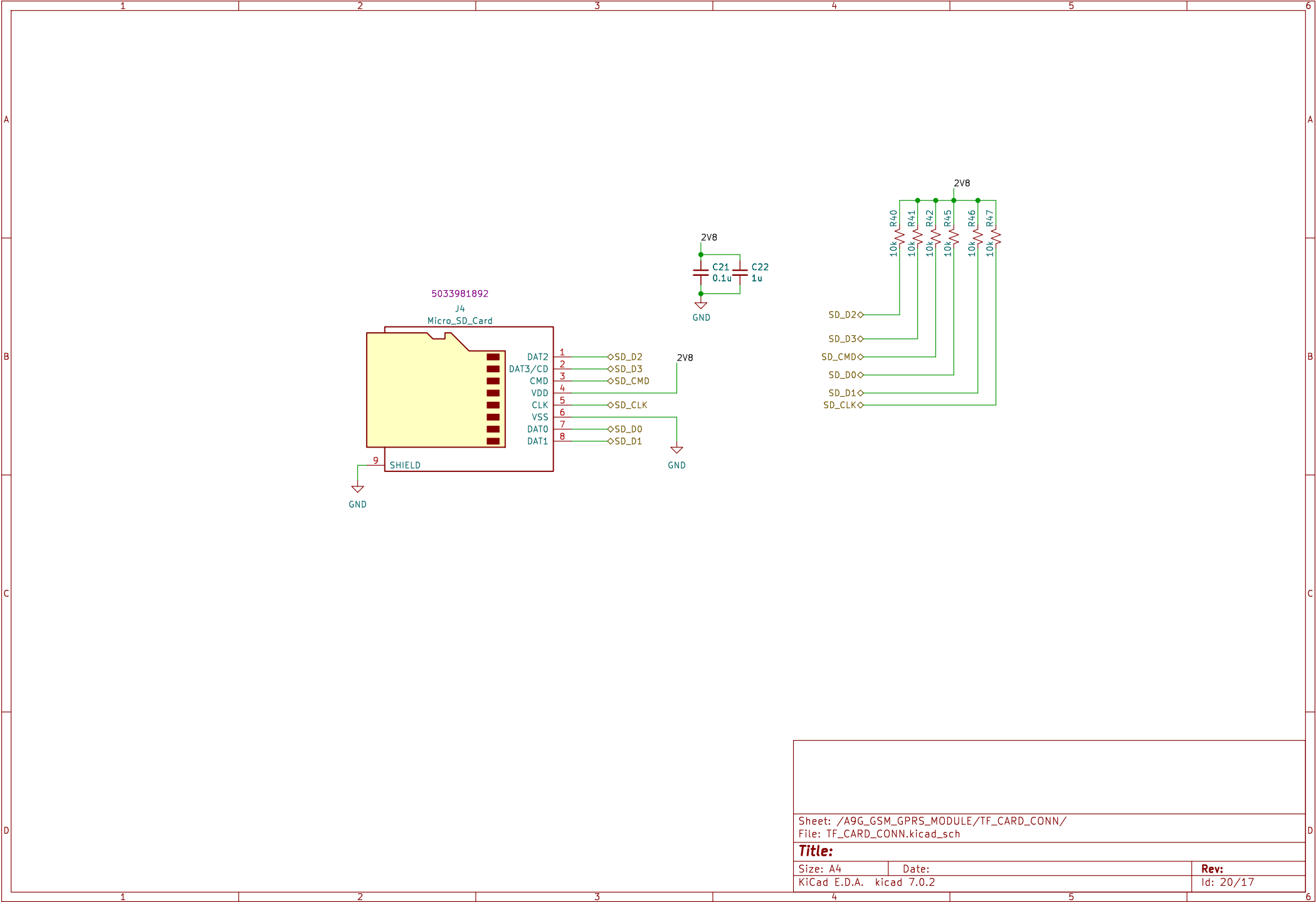
Rev:

Id: 19/17

RS485 MAX485E



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|------------------------------|------------------|-----------------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /RS485_MAX487/ | | |
| File: RS485_MAX485.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 19/17 |



Sheet: /A9G_GSM_GPRS_MODULE/TF_CARD_CONN/
File: TF_CARD_CONN.kicad_sch

Title:

Size: A4

Date:

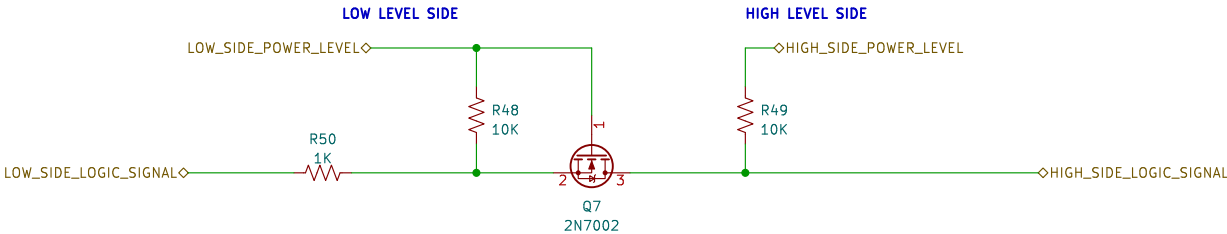
KiCad E.D.A. kicad 7.0.2

Rev:

Id: 20/17

BI-DIRECTIONAL LEVEL TRANSLATOR

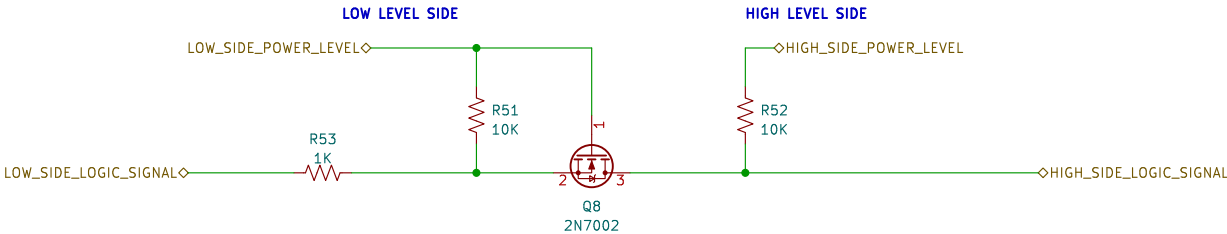
MOSFET - IMPLEMENTATION



| | | |
|---|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /A9G_GSM_GPRS_MODULE/MOSFET_LOGIC_LEVEL_TRANSLATOR7/ | | |
| File: MOSFET_LOGIC_LEVEL_TRANSLATOR.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | Id: 21/17 | |

BI-DIRECTIONAL LEVEL TRANSLATOR

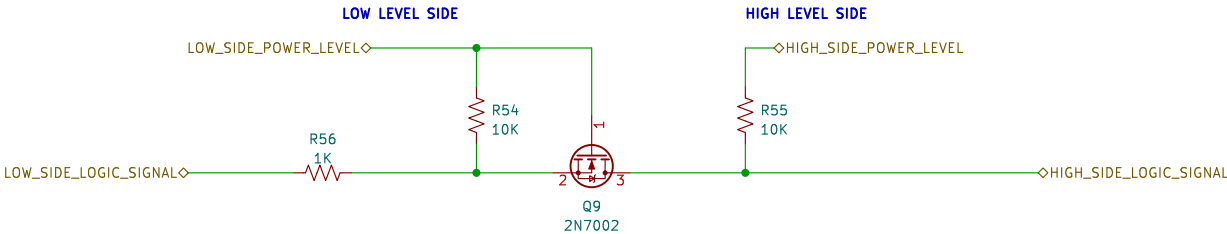
MOSFET - IMPLEMENTATION



| | | |
|---|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /A9G_GSM_GPRS_MODULE/MOSFET_LOGIC_LEVEL_TRANSLATOR8/ | | |
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| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 22/17 |

BI-DIRECTIONAL LEVEL TRANSLATOR

MOSFET - IMPLEMENTATION



| | | |
|---|------------------|----------------|
| BIM BOARD | | |
| Designed By: Robert Mutura | | |
| Reviewed by: Timothy Kyalo | | |
| GEVITON | | |
| Sheet: /A9G_GSM_GPRS_MODULE/MOSFET_LOGIC_LEVEL_TRANSLATOR9/ | | |
| File: MOSFET_LOGIC_LEVEL_TRANSLATOR.kicad_sch | | |
| Title: BIM BOARD | | |
| Size: A4 | Date: 2023-12-06 | Rev: REV 2.0.0 |
| KiCad E.D.A. kicad 7.0.2 | | Id: 23/17 |