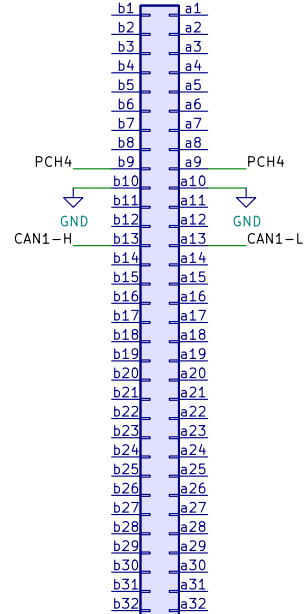
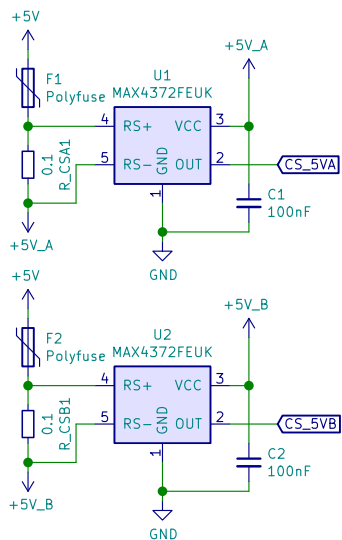


Platform Bus

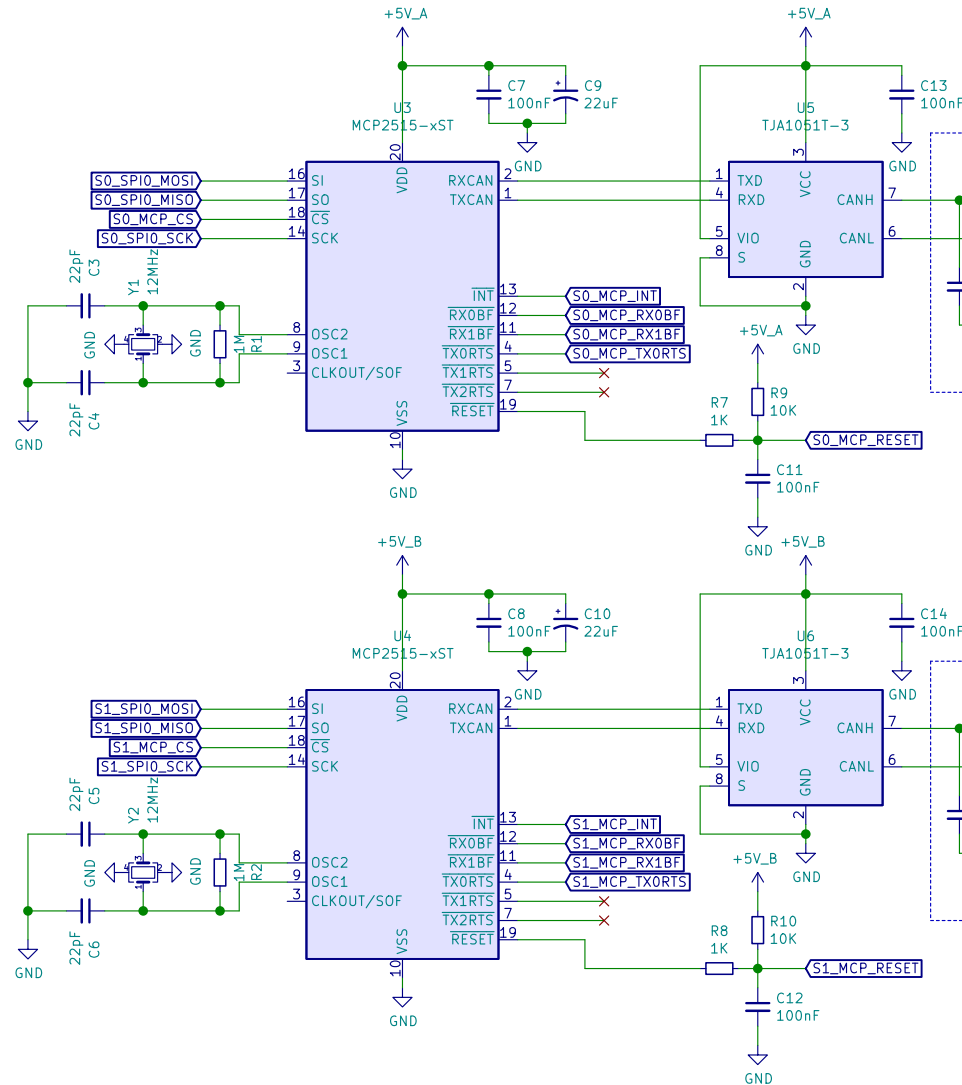
PC/104 Connector



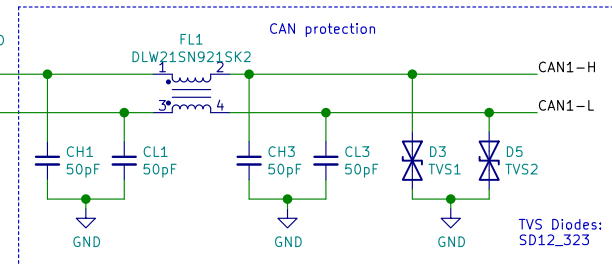
Current Sensors



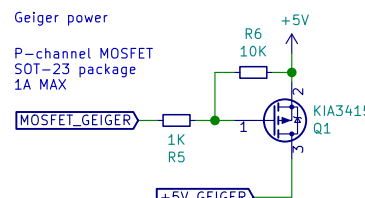
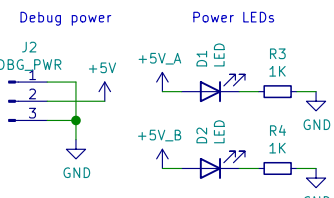
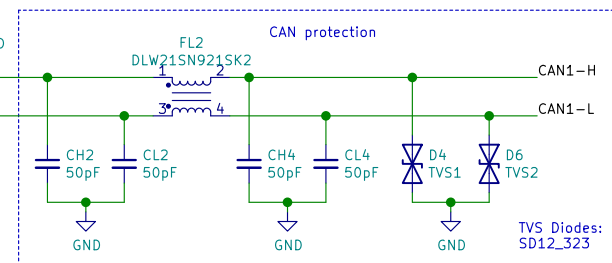
CANBUS Controllers



Node Group0 S0



Node Group1 S1



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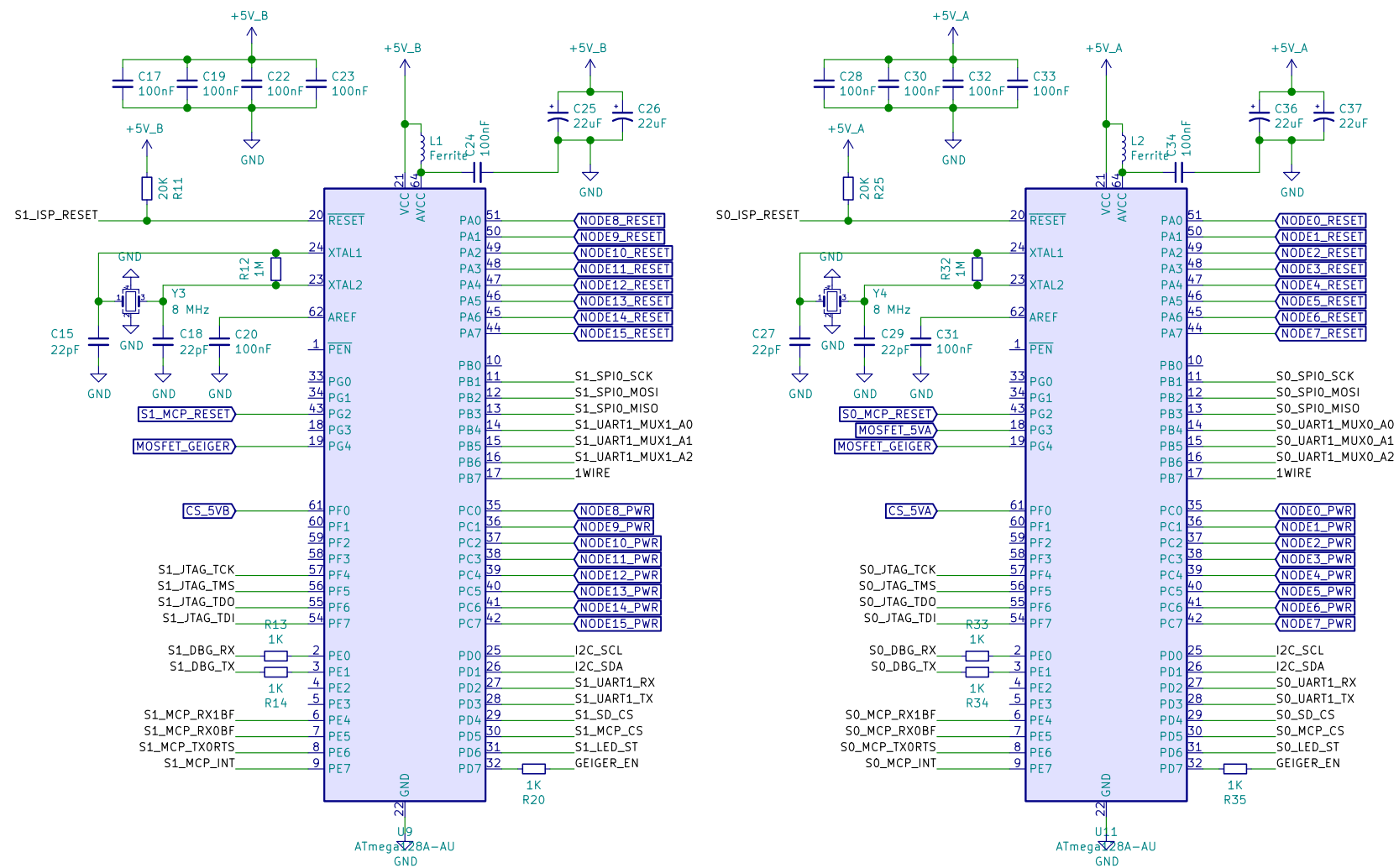
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File: ykts-payload.sch

Title: YktSat Payload Module

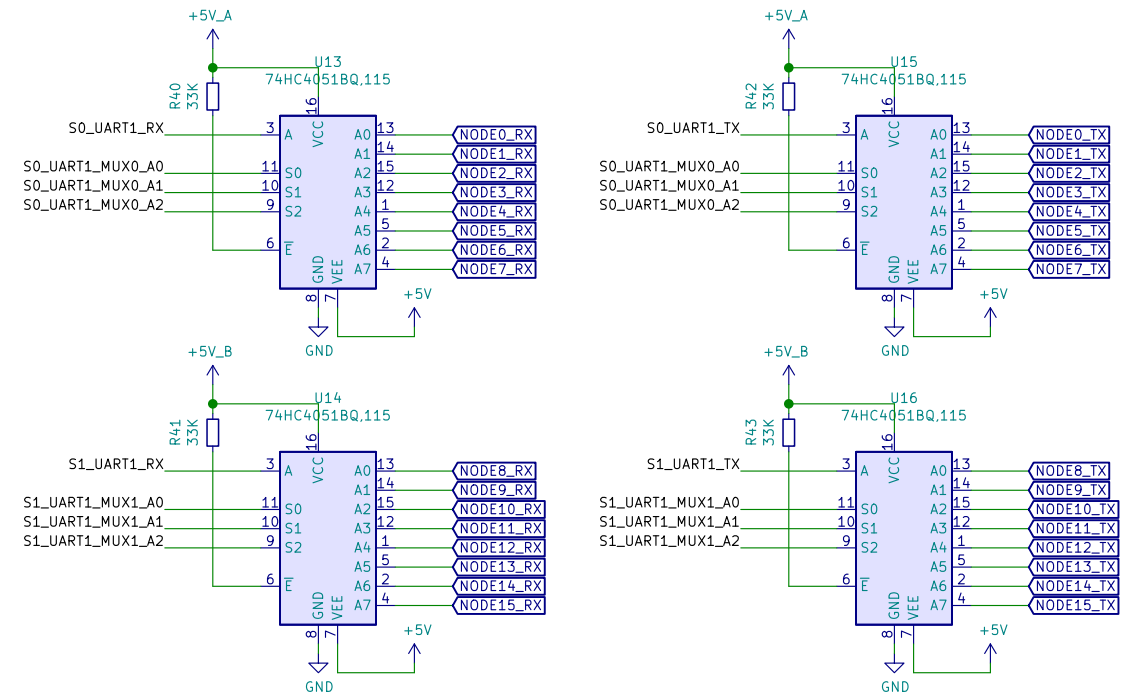
Size: A4 Date: 2021-10-29
KiCad E.D.A. kicad (5.1.8)-1

Rev: C0
Id: 1/18

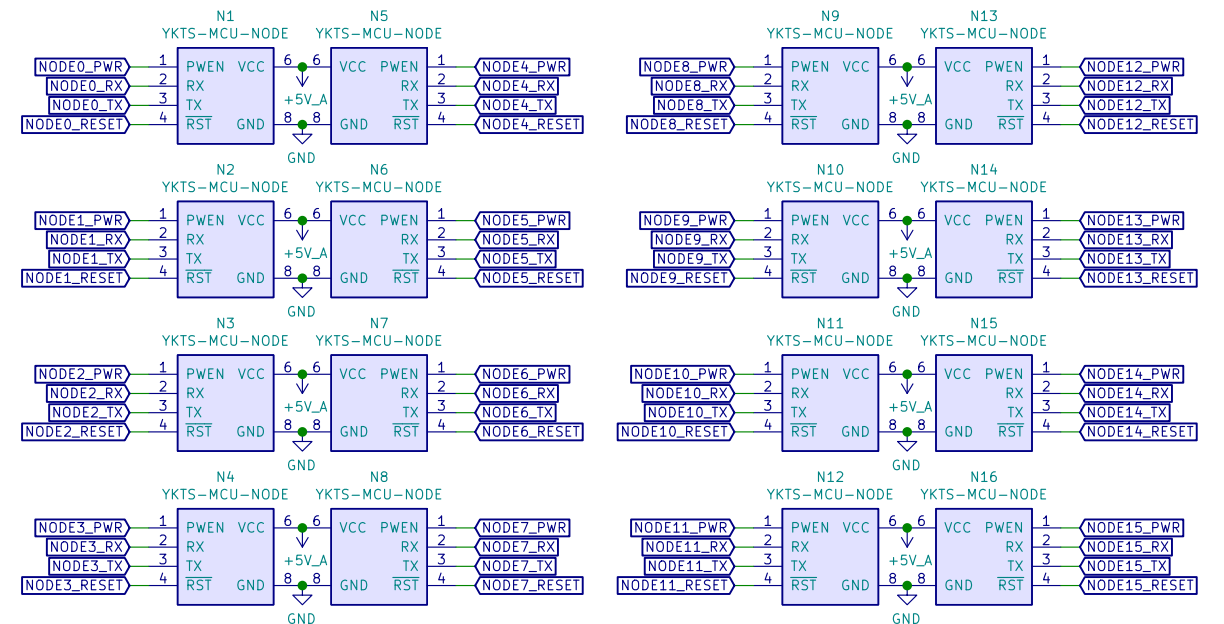
Main MCUs



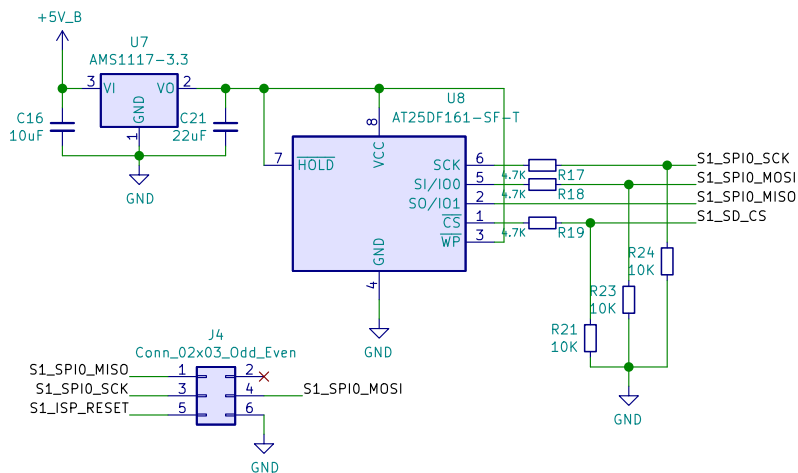
Node UART Multiplexing



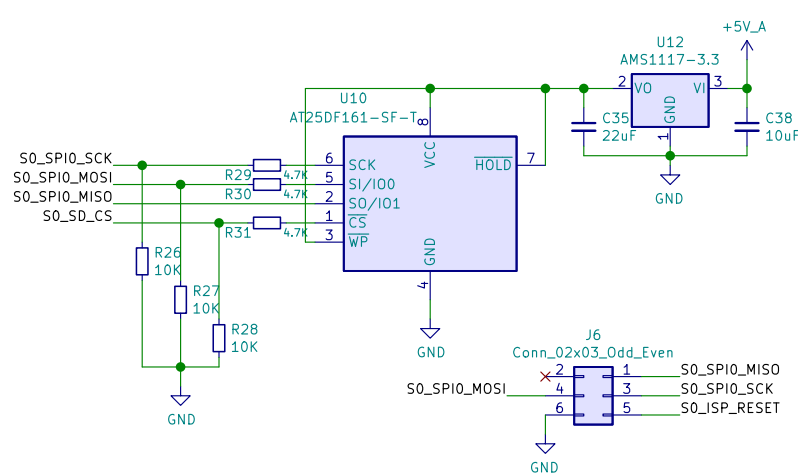
MCU Nodes



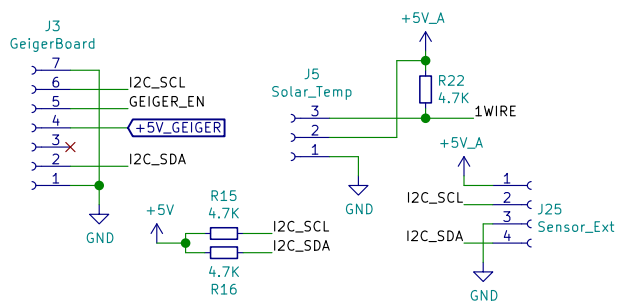
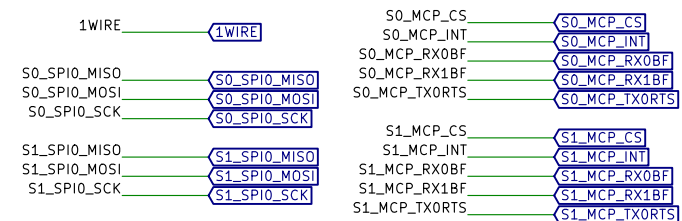
Supervisor 1 Flash



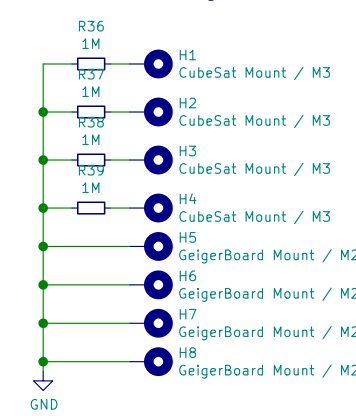
Supervisor 0 Flash



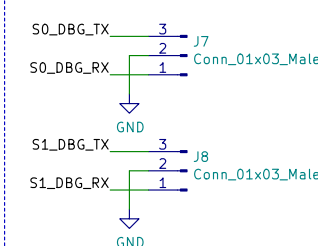
Auxiliary Devices

Geiger board,
DS18B20 sensorsGlobal Bus
Connections

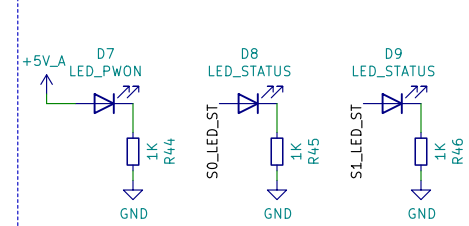
Mounting Holes



Debug Console



Status LEDs



Verified by: Ksenofontov I.V.
Verified by:
Approved by:
Sakha Aerospace Systems, LLC
Sheet: /Payload MCU/
File: ykts-payload-mcu.sch

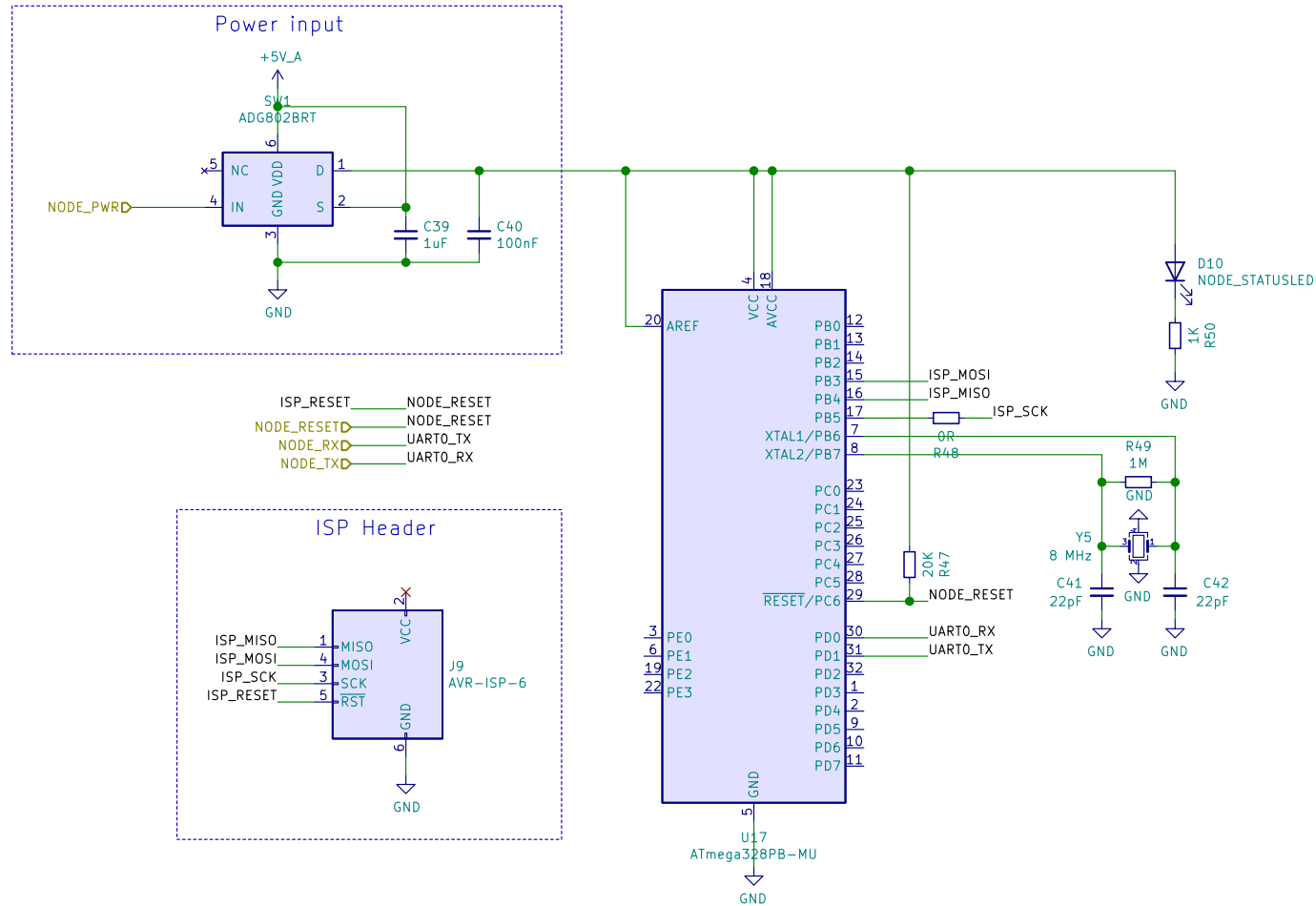
Title: YktSat Payload Module

Size: A3 Date: 2021-10-29
Kicad E.D.A. kicad (5.1.8)-1

Rev: C0
Id: 2/18



MCU Node



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node0/
File: ykts-mcu-node.sch

Title: YktSat Payload Module

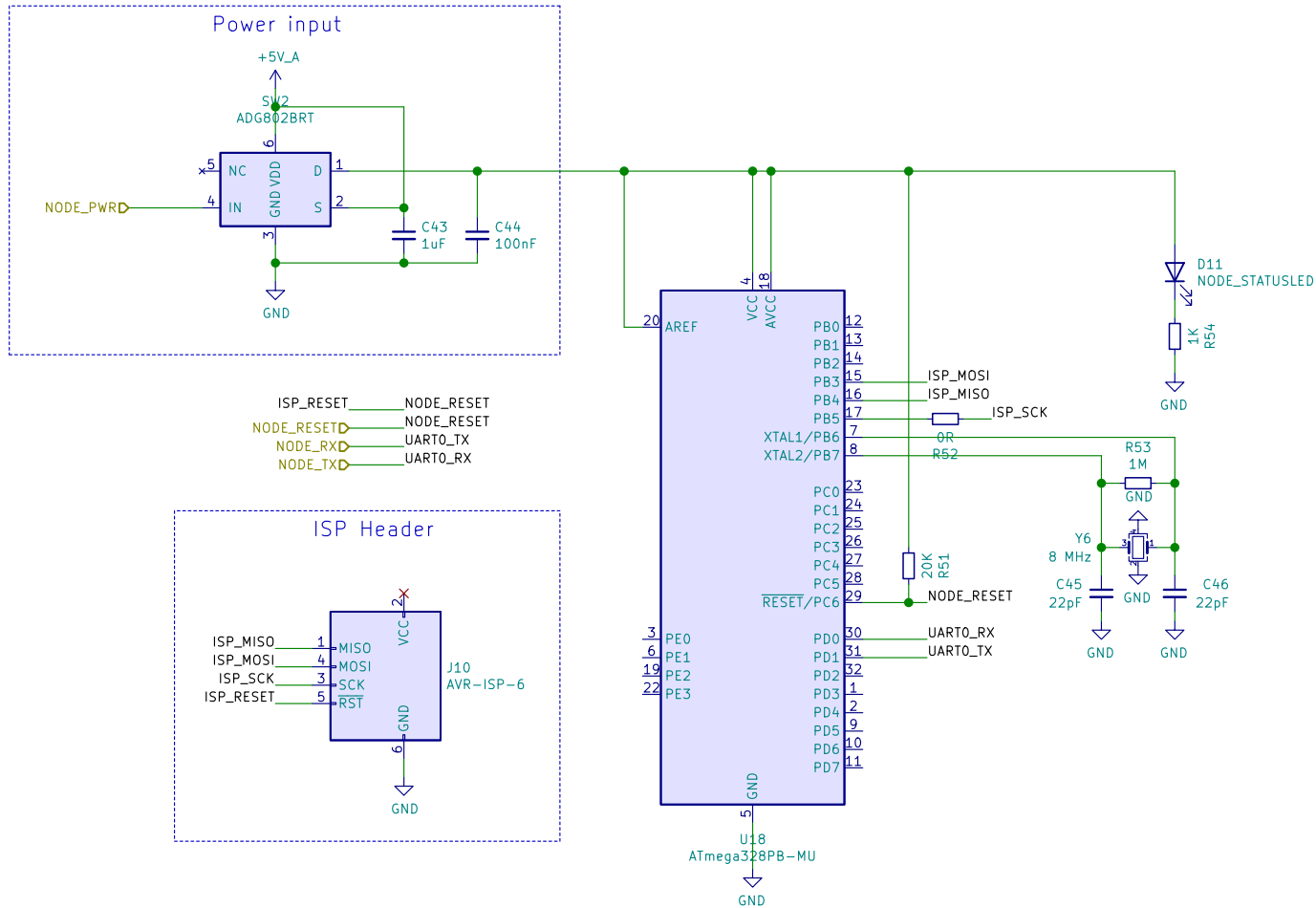
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 3/18

MCU Node



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node1/
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Title: YktSat Payload Module

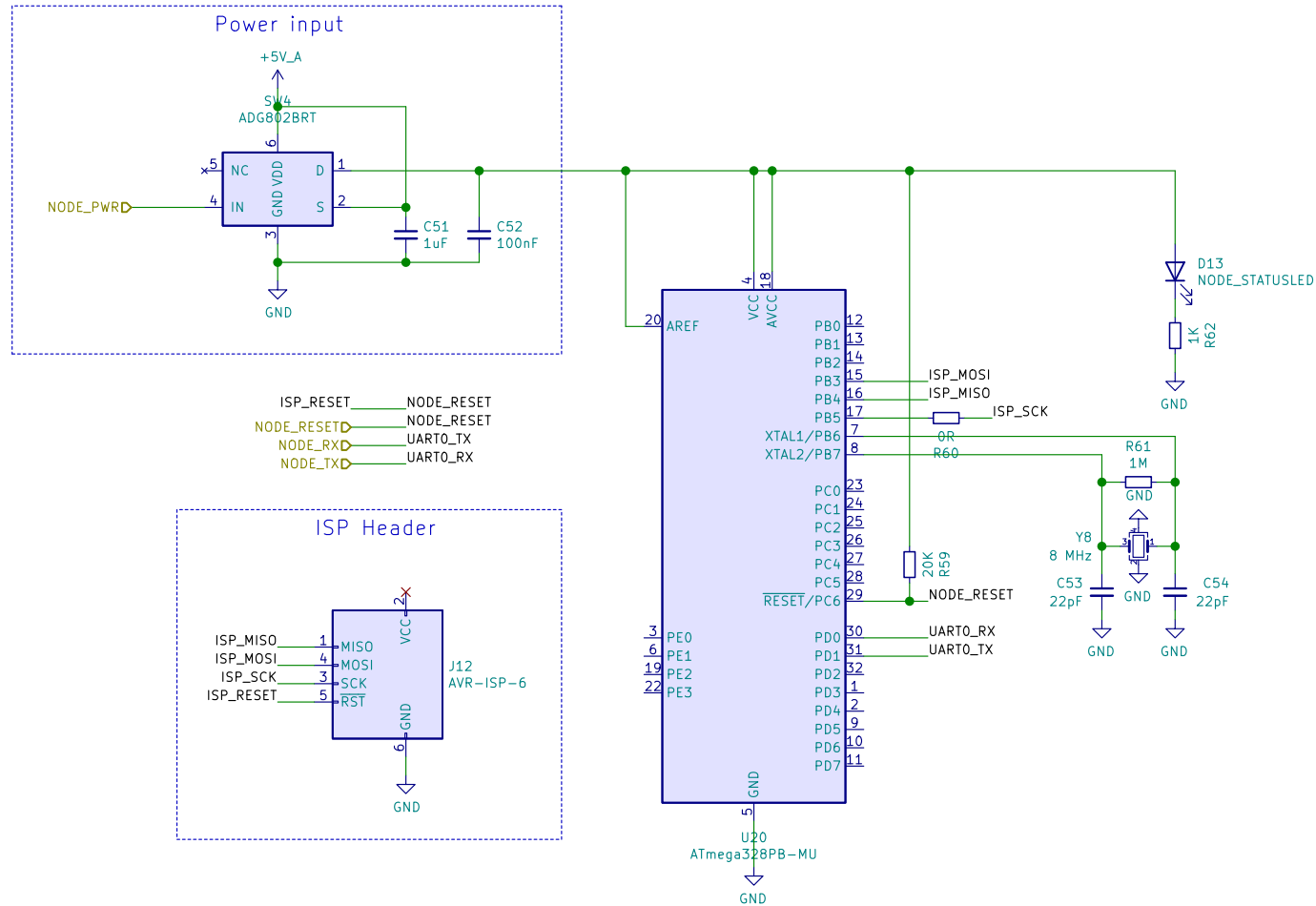
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 4/18

MCU Node



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node.sch

Title: YktSat Payload Module

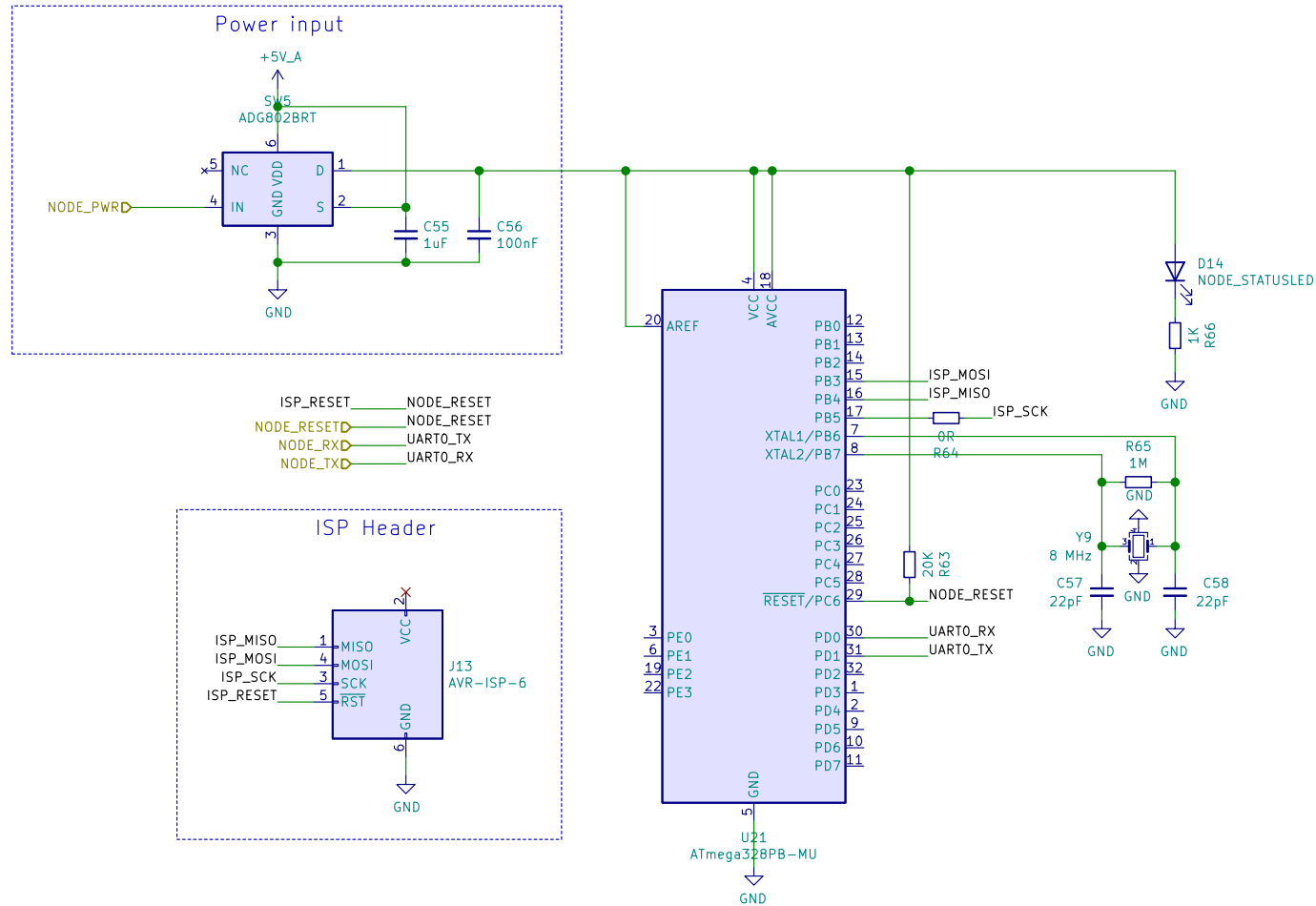
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 6/18

MCU Node



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node4/

File: ykts-mcu-node.sch

Title: YktSat Payload Module

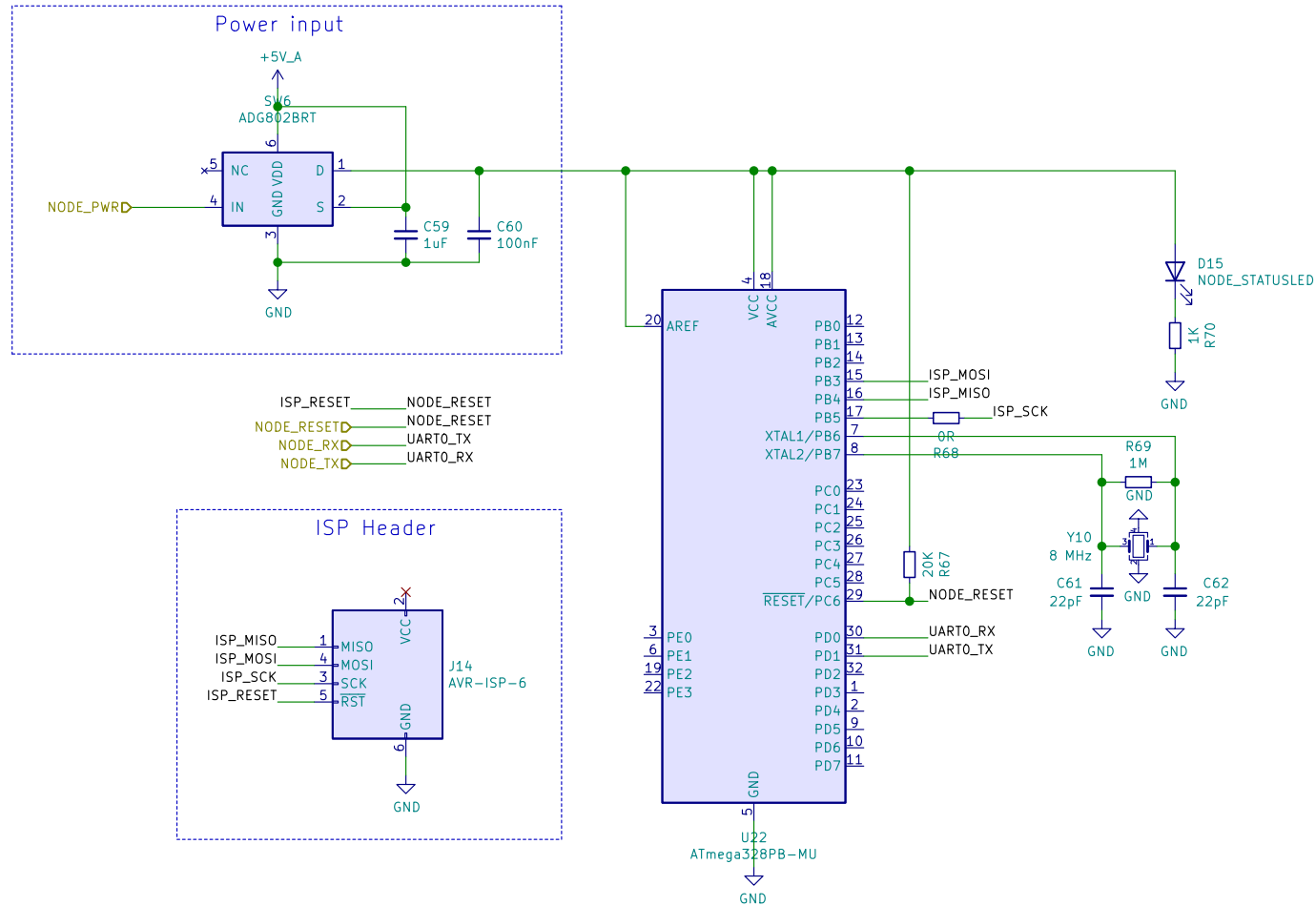
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 7/18

MCU Node



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node.sch

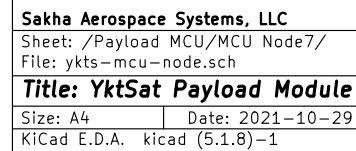
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Size: A4 Date: 2021-10-29

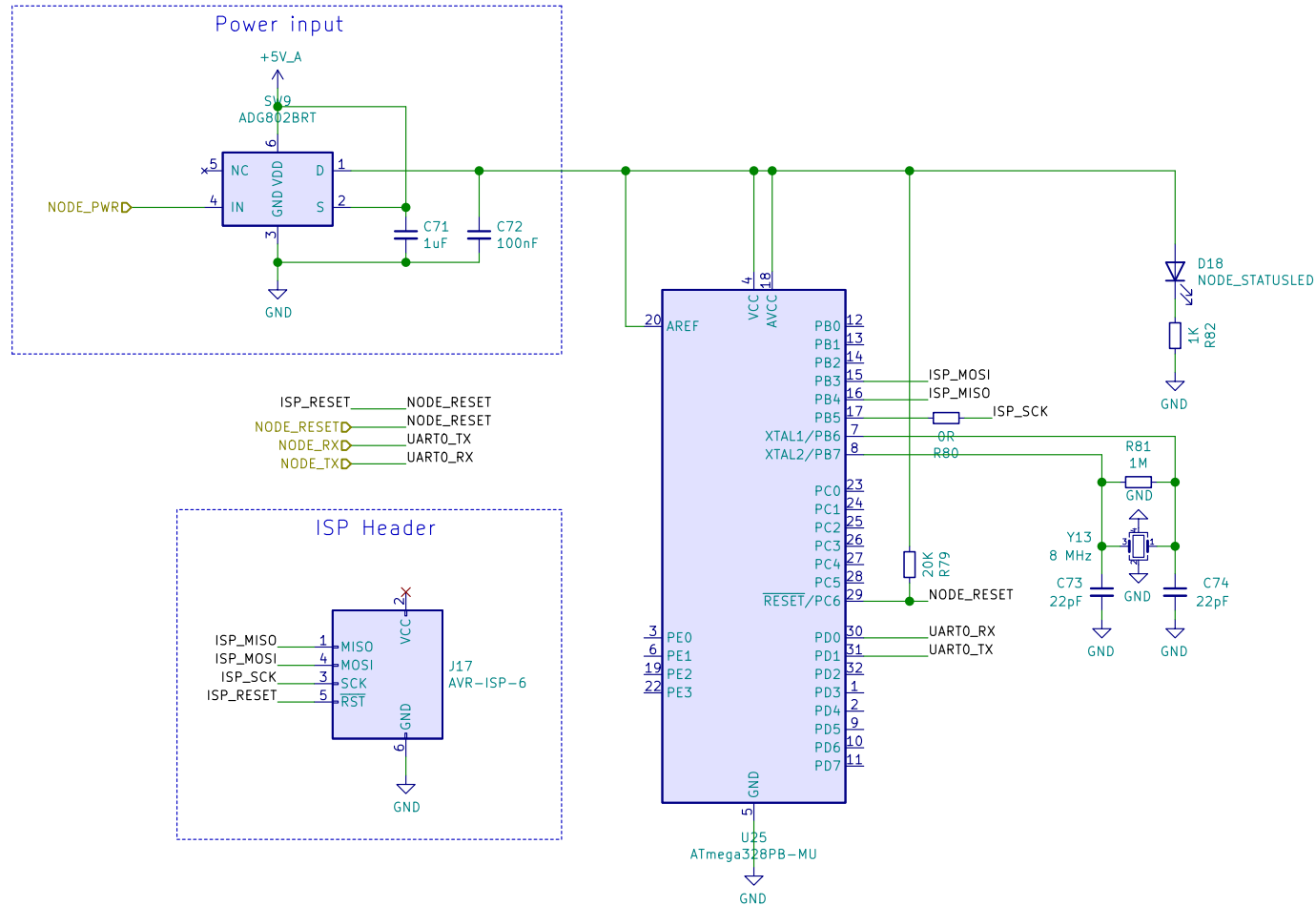
KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 8/18



MCU Node



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node.sch

Title: YktSat Payload Module

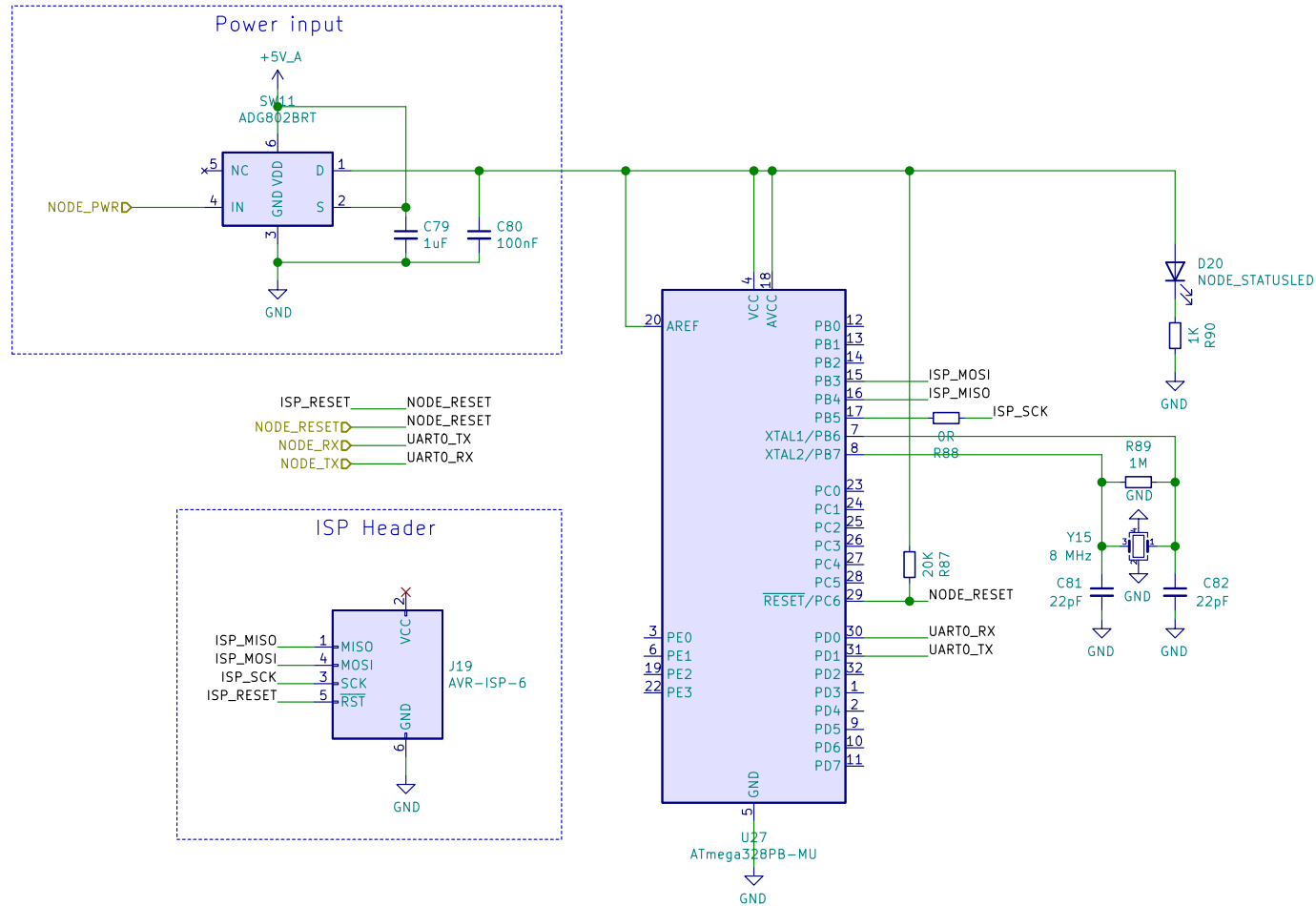
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 11/18

MCU Node



Sakha Aerospace Systems, LLC

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Title: YktSat Payload Module

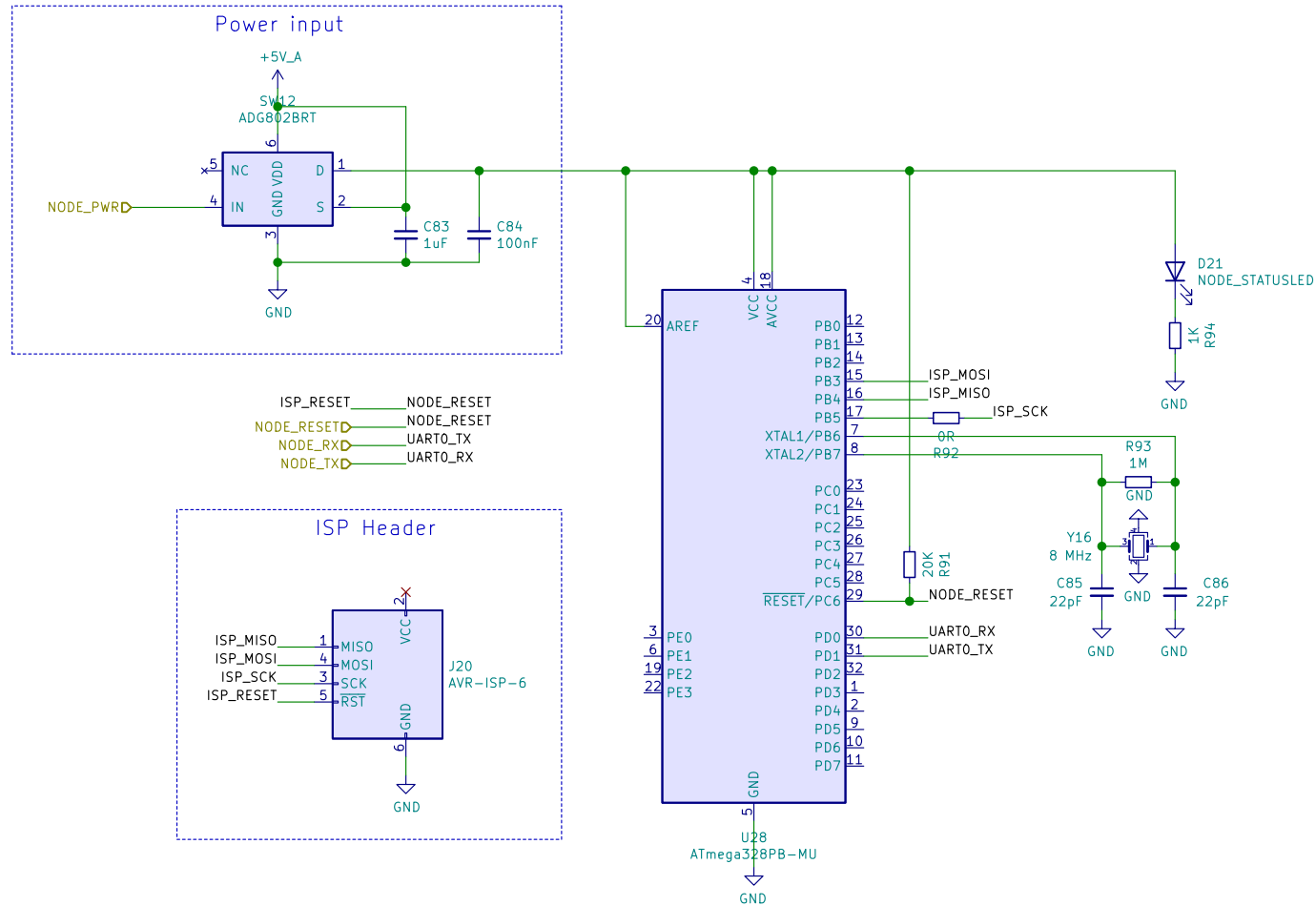
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 13/18

MCU Node



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node.sch

Title: YktSat Payload Module

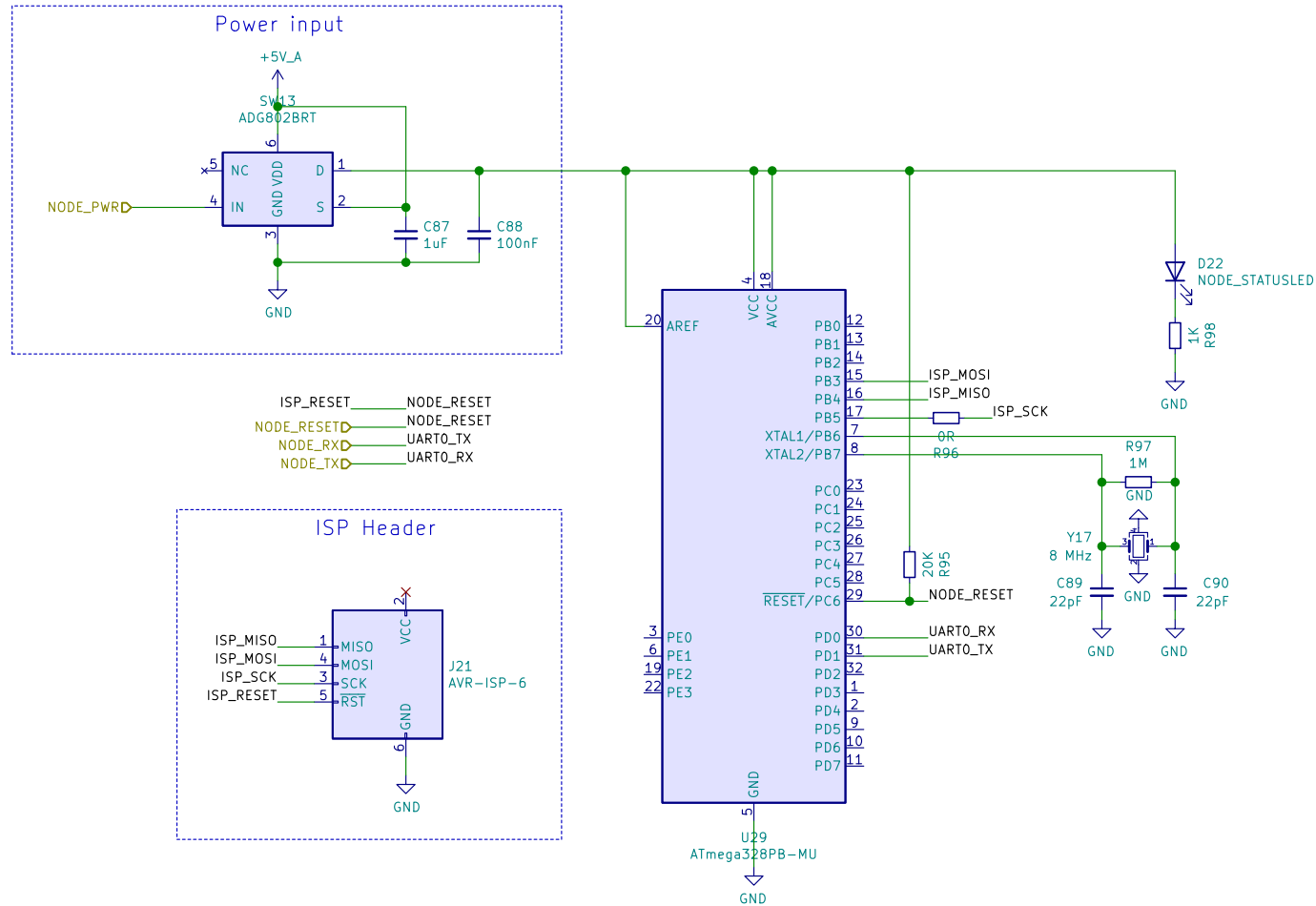
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 14/18

MCU Node



Sakha Aerospace Systems, LLC

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Title: YktSat Payload Module

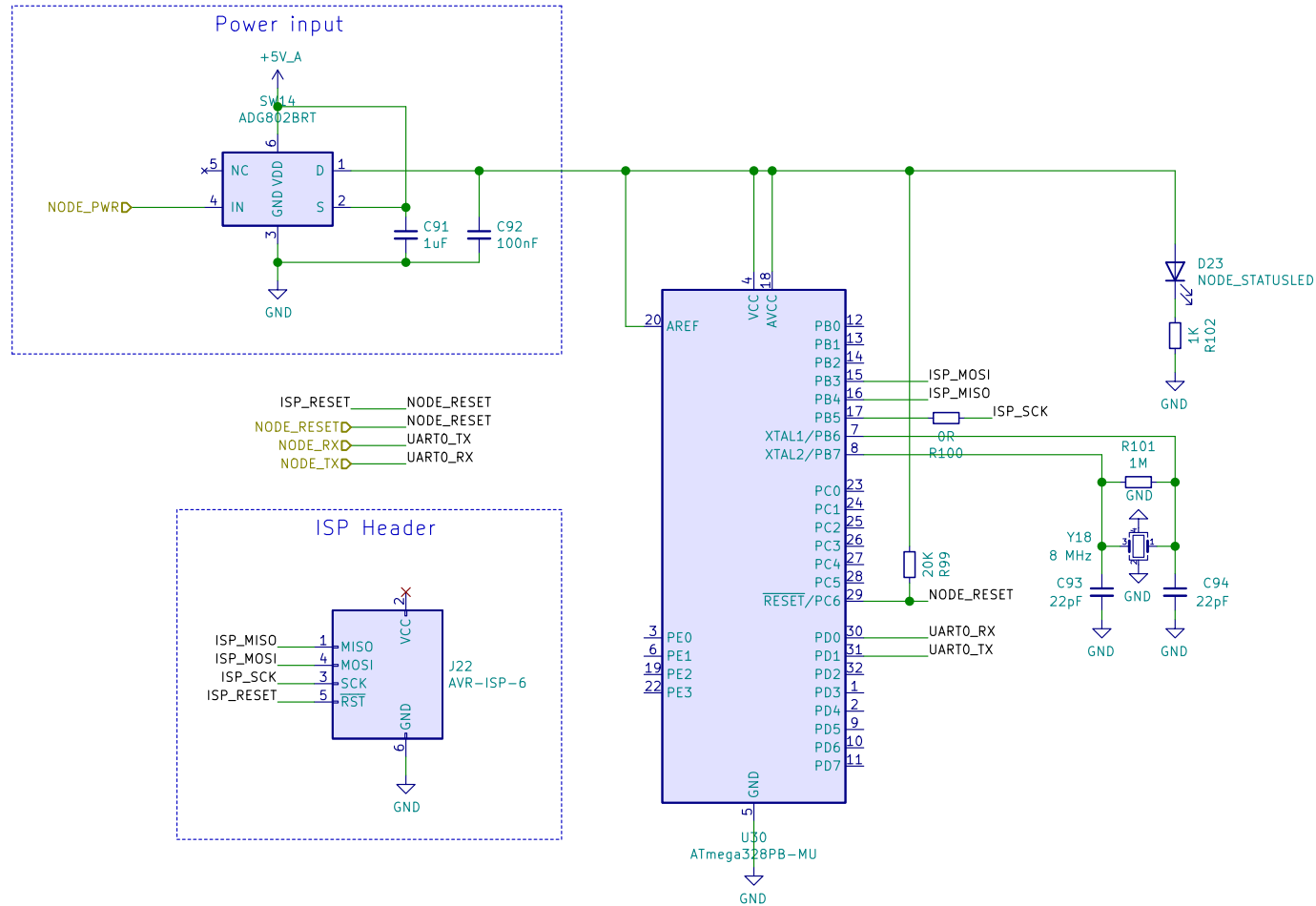
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 15/18

MCU Node



Sakha Aerospace Systems, LLC

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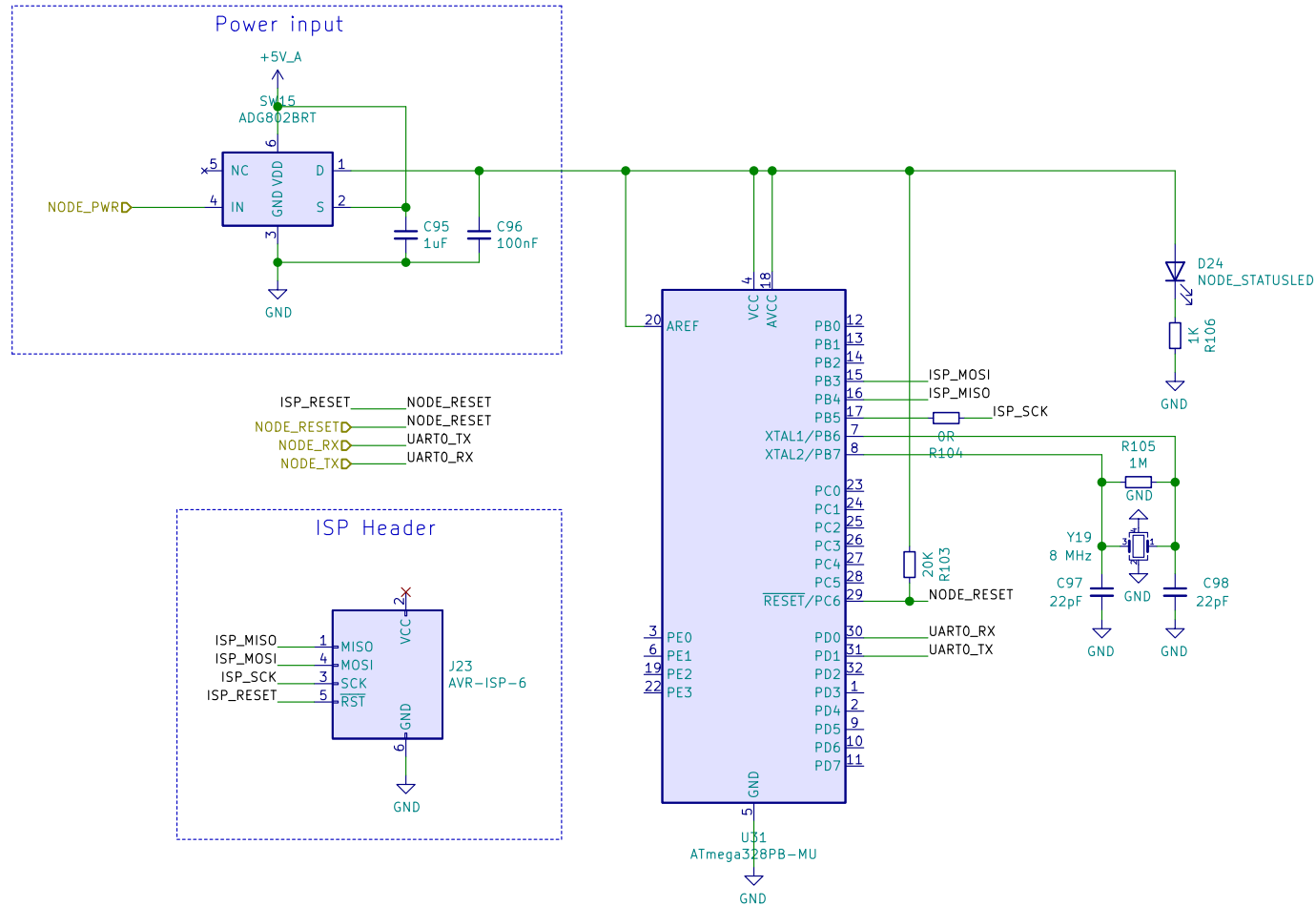
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 16/18

MCU Node



Sakha Aerospace Systems, LLC

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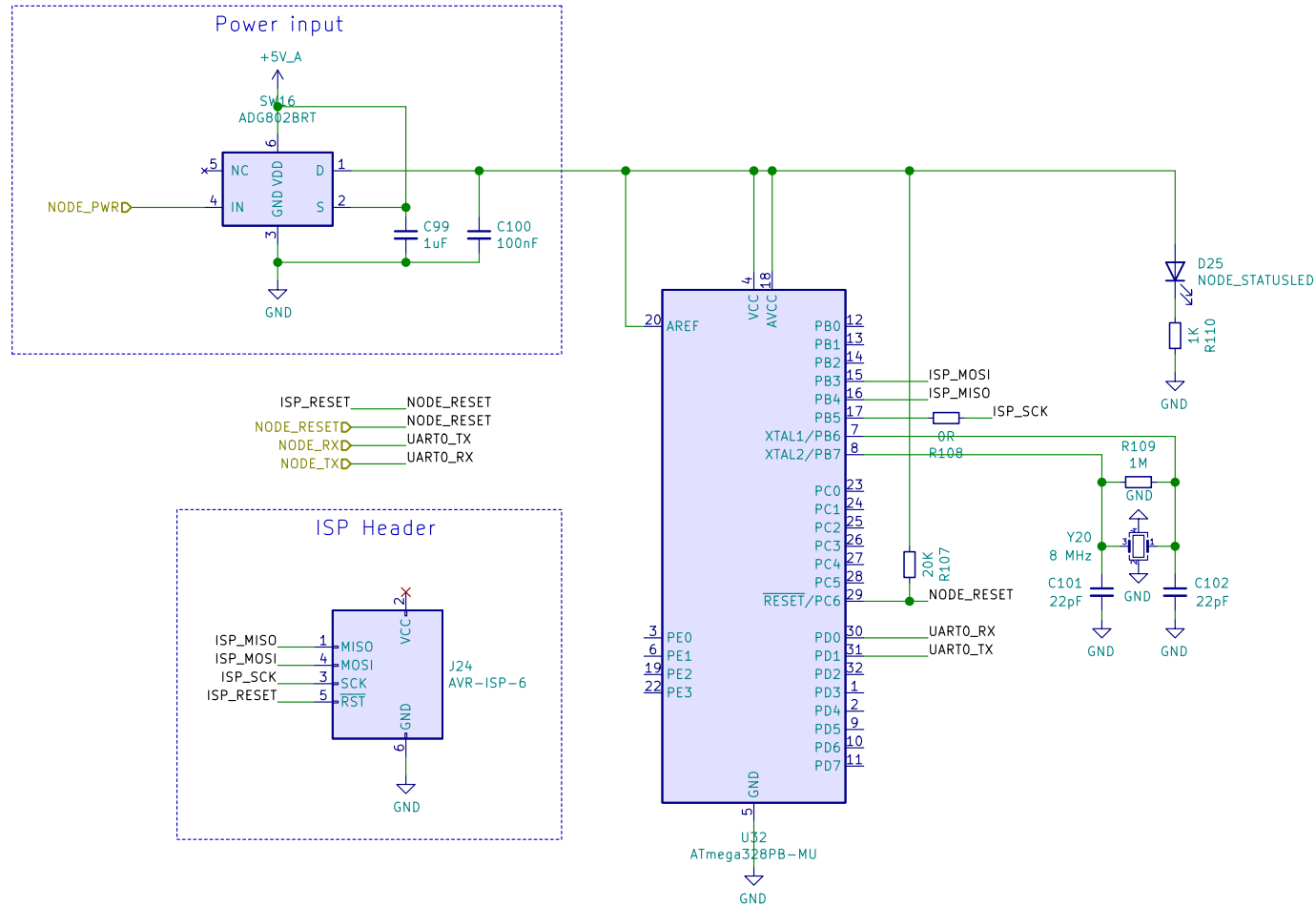
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KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 17/18

MCU Node



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node15/
File: ykts-mcu-node.sch

Title: YktSat Payload Module

Size: A4 Date: 2021-10-29

KiCad E.D.A. kicad (5.1.8)-1

Rev: C0

Id: 18/18