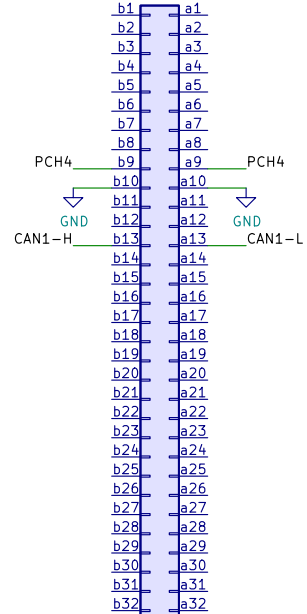
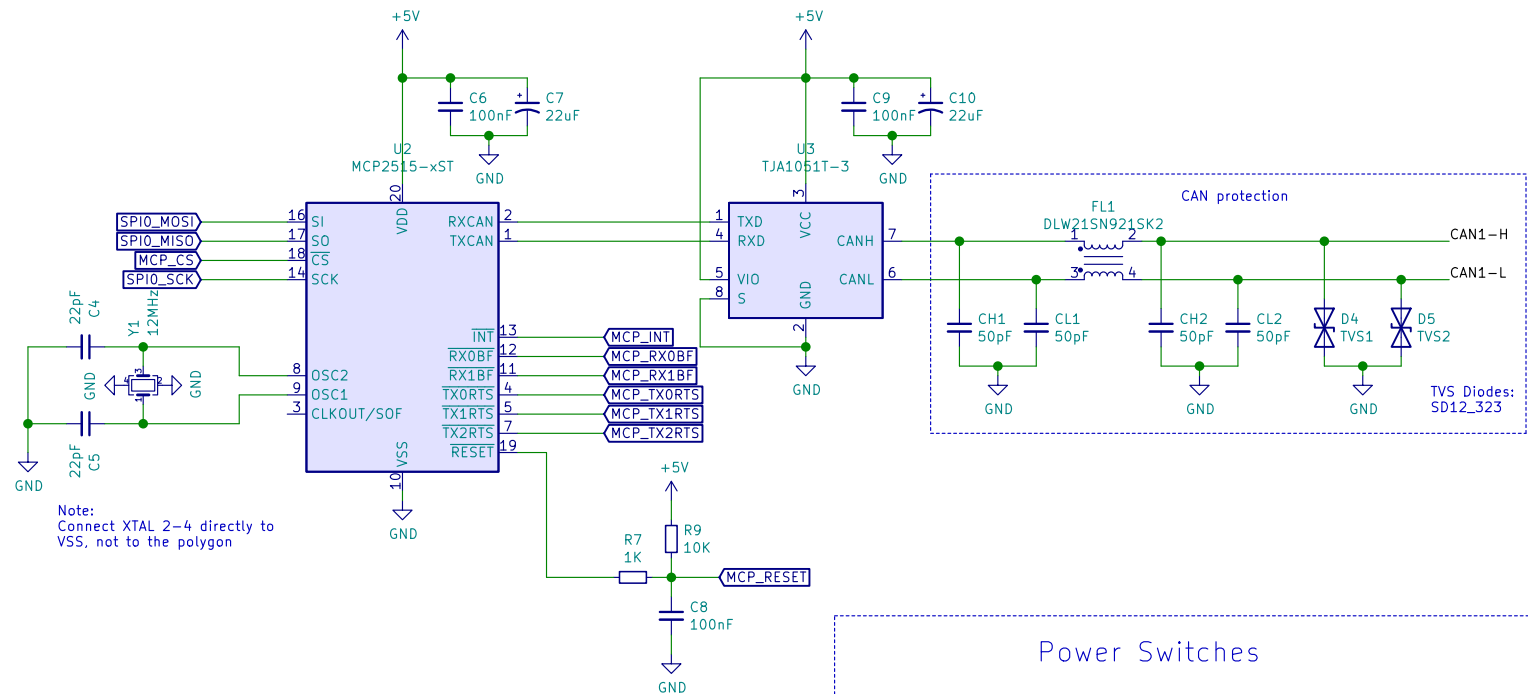


Platform Bus

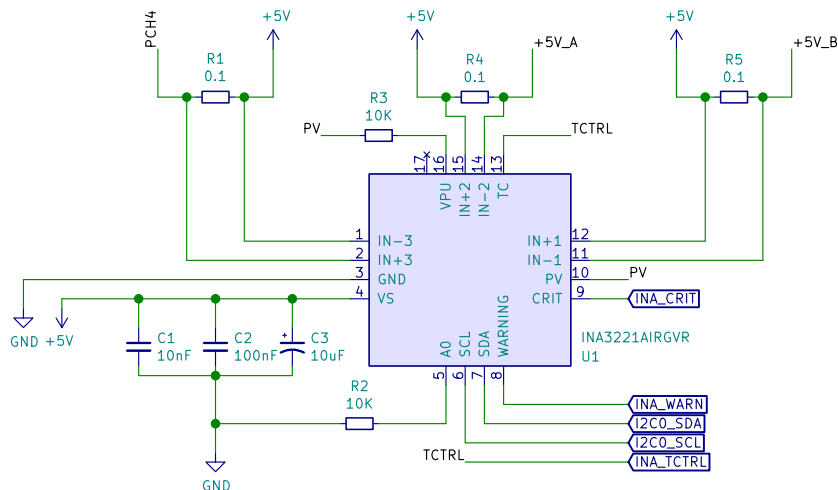
PC/104 Connector



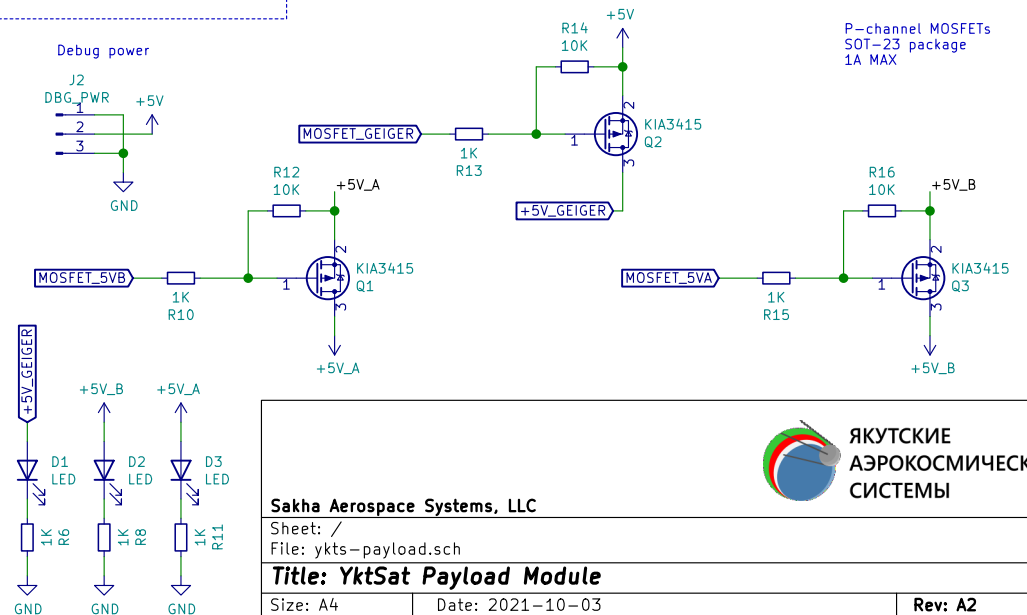
CANBUS Controller



Current Sensor



Power Switches



ЯКУТСКИЕ
АЭРОКОСМИЧЕСКИЕ
СИСТЕМЫ

Sakha Aerospace Systems, LLC

Sheet: /
File: ykts-payload.sch

Title: YktSat Payload Module

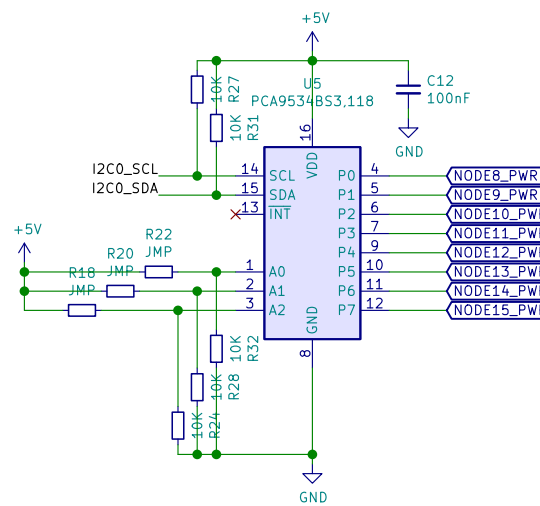
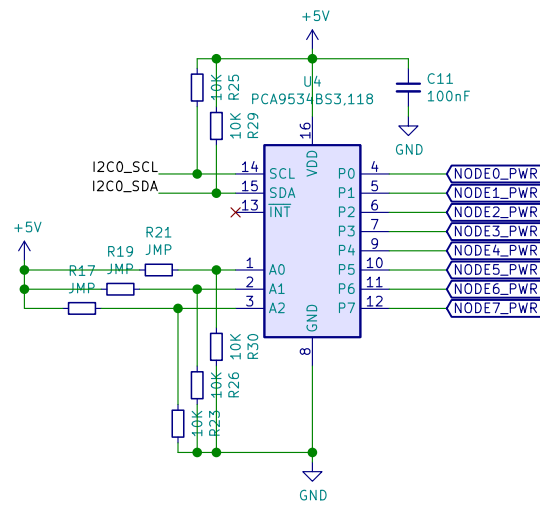
Size: A4 Date: 2021-10-03

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

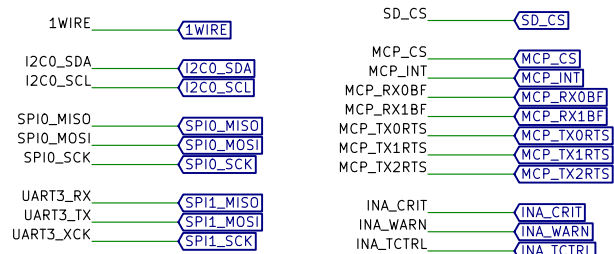
Rev: A2

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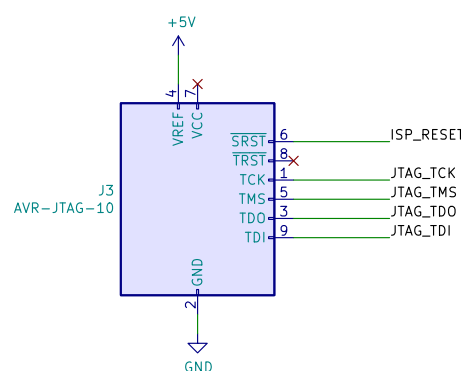
Node Power Control



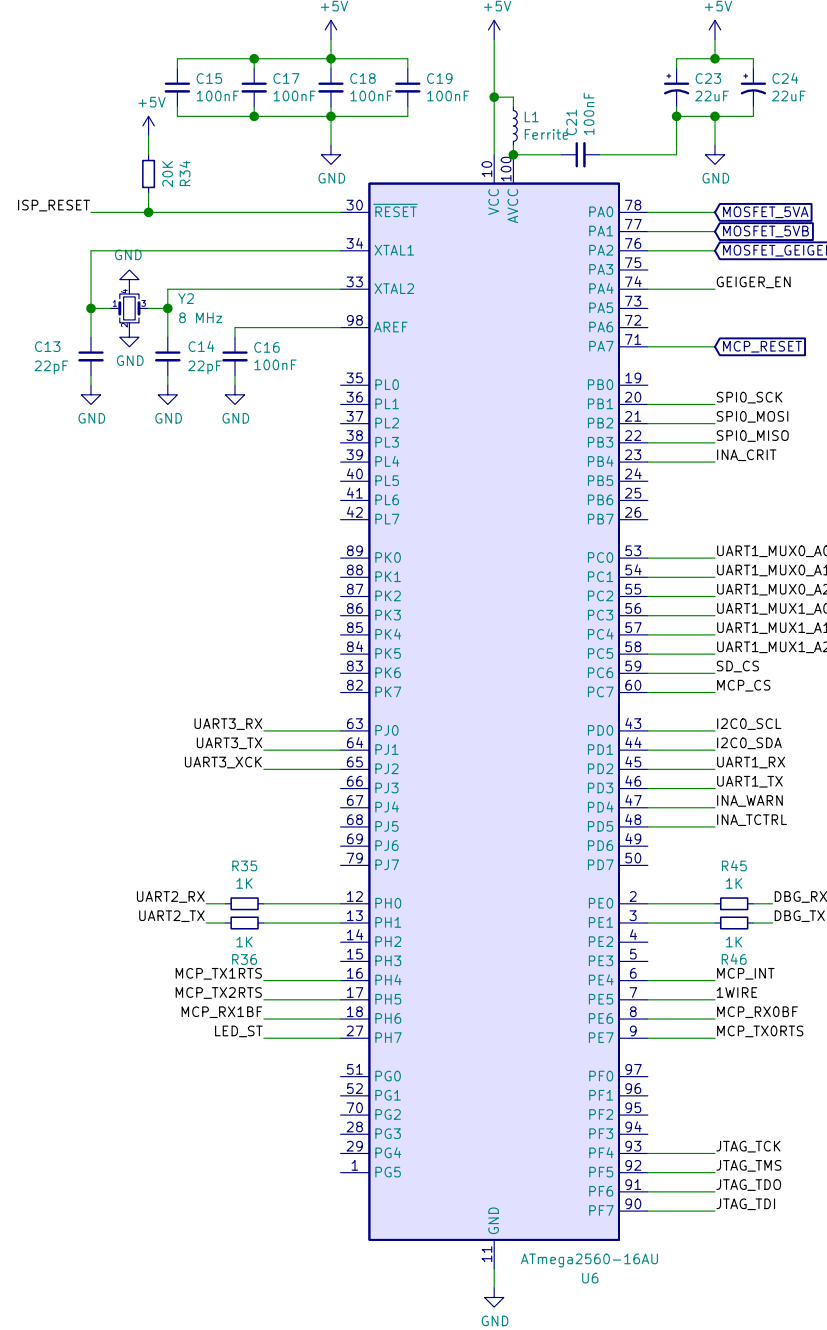
Bus Connections



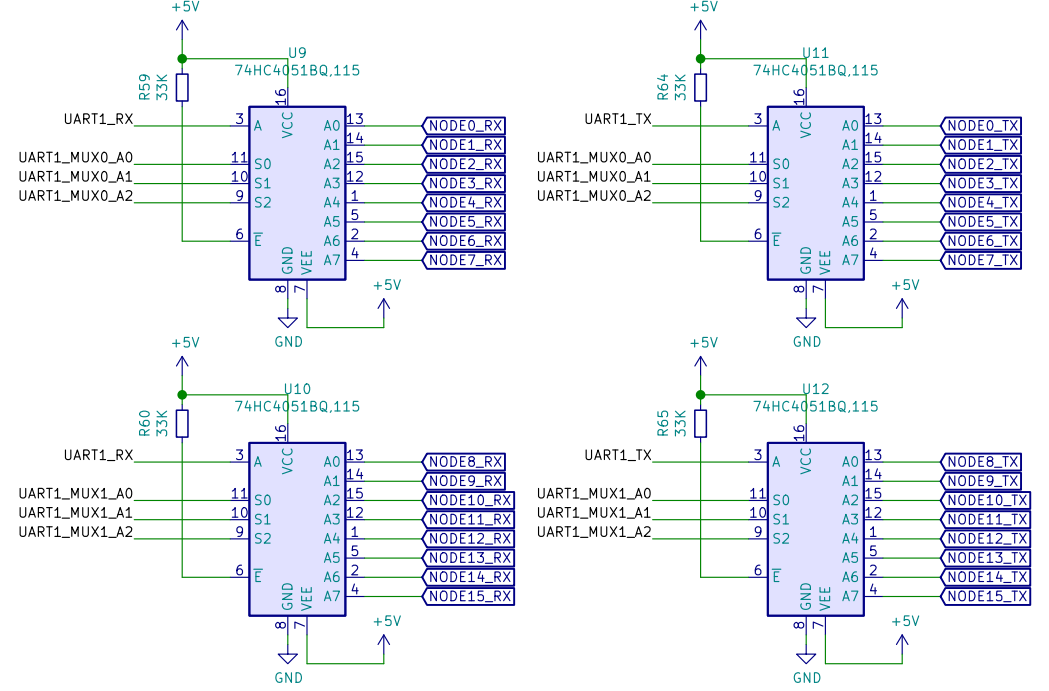
AVR JTAG



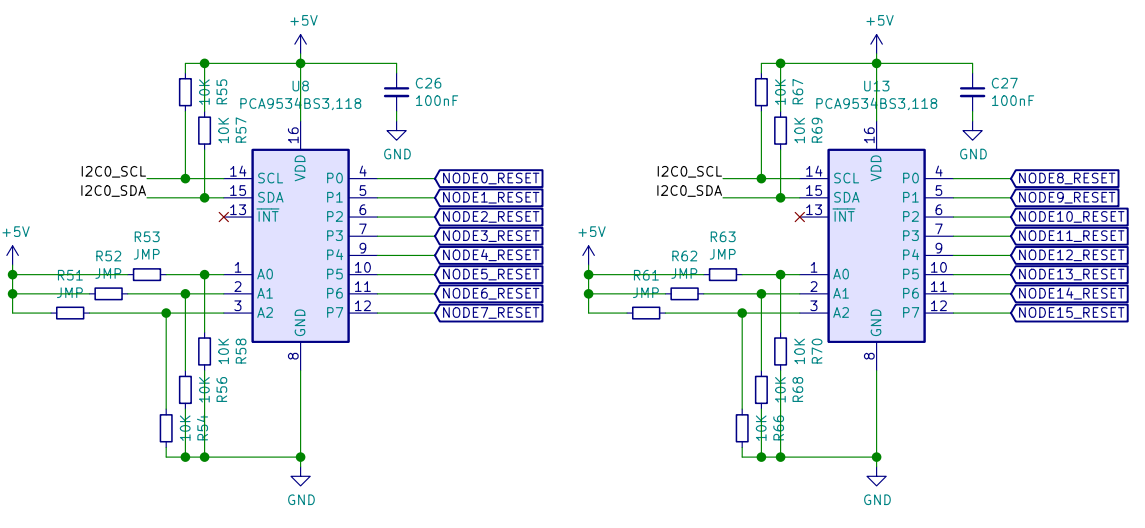
Main MCU



Node UART Multiplexing

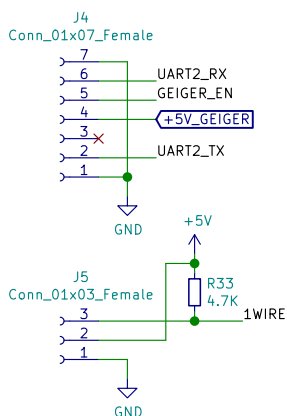


Node Reset Control

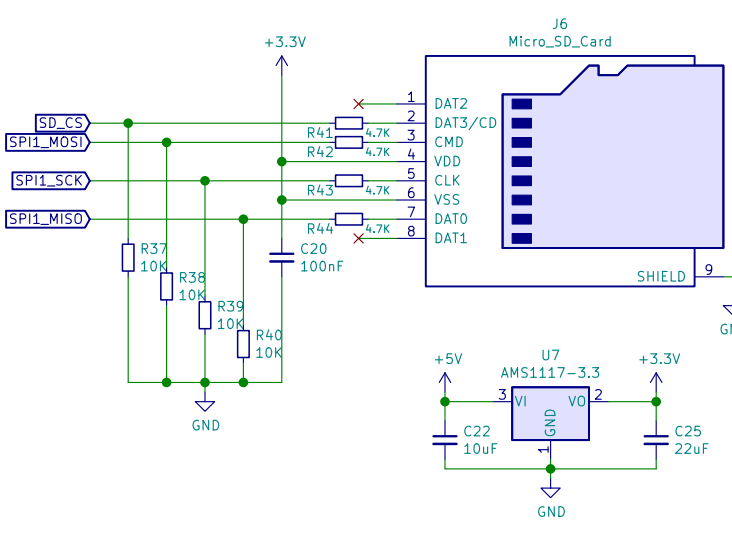


Auxiliary Devices

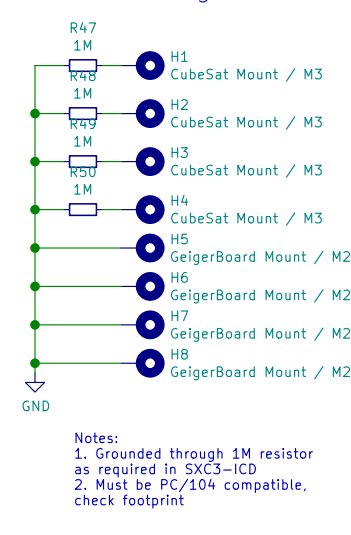
Geiger board, DS18B20 sensors



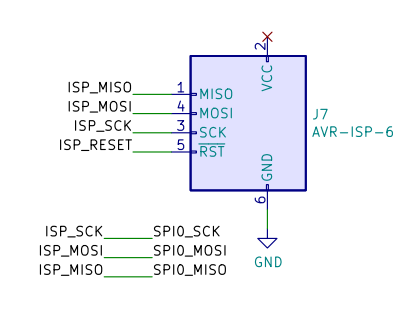
SD Card



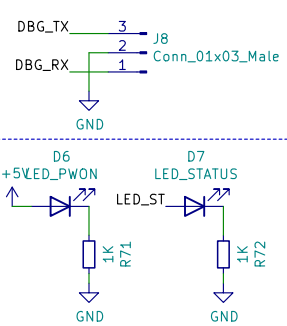
Mounting Holes



AVR ISP6

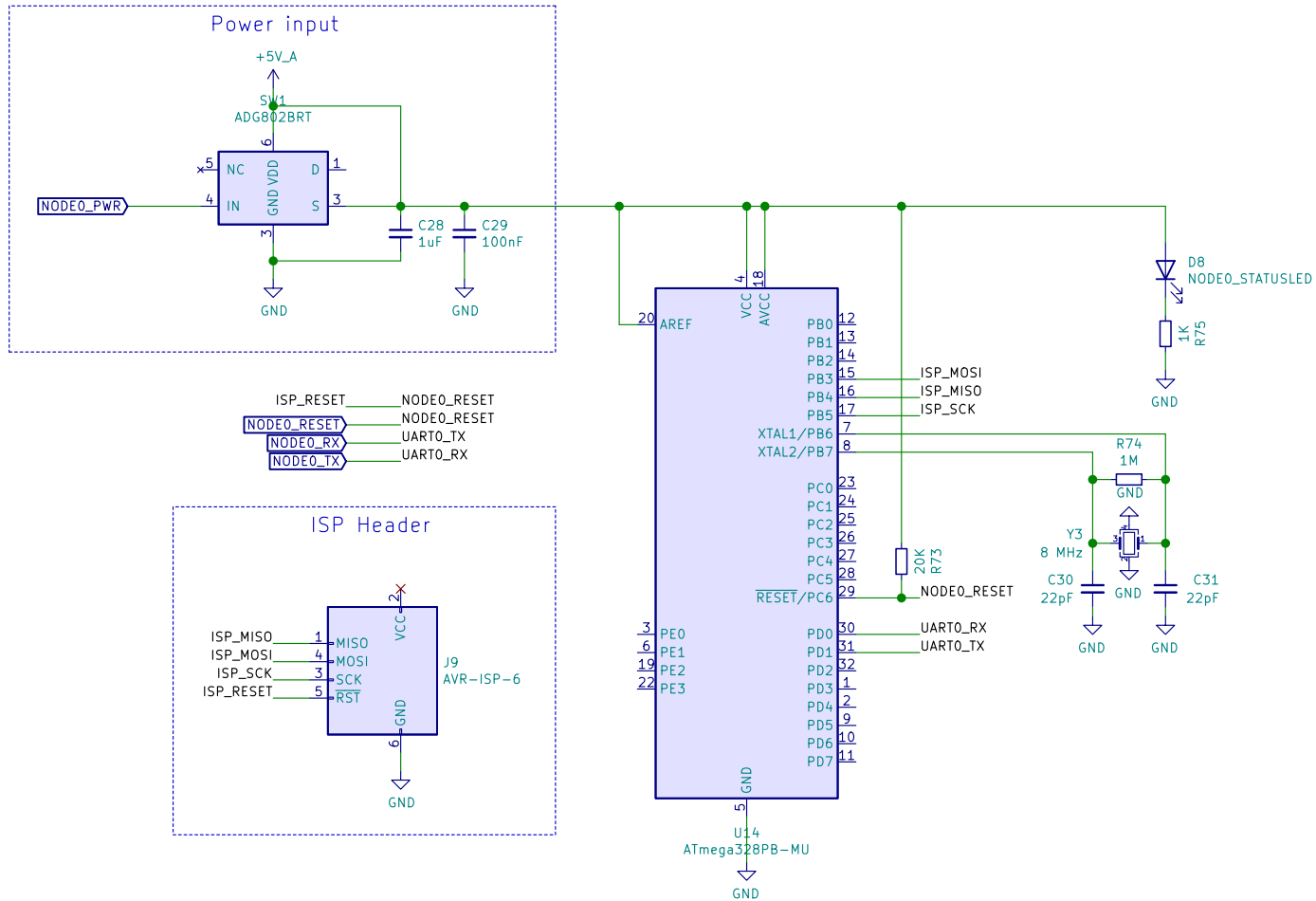


Debug Console



Verified by:	YAKUTSKIE АЭРОКОСМИЧЕСКИЕ СИСТЕМЫ
Approved by:	YAKUTSKIE АЭРОКОСМИЧЕСКИЕ СИСТЕМЫ
Approved by:	YAKUTSKIE АЭРОКОСМИЧЕСКИЕ СИСТЕМЫ
Sheet: /Payload MCU/	File: ykts-payload-mcu.sch
Title: YktSat Payload Module	
Size: A3	Date: 2021-10-03
KiCad E.D.A. kicad (5.1.8)-1	Rev: A2
Id: 2/18	

MCU Node 0



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node0.sch

Title: YktSat Payload Module

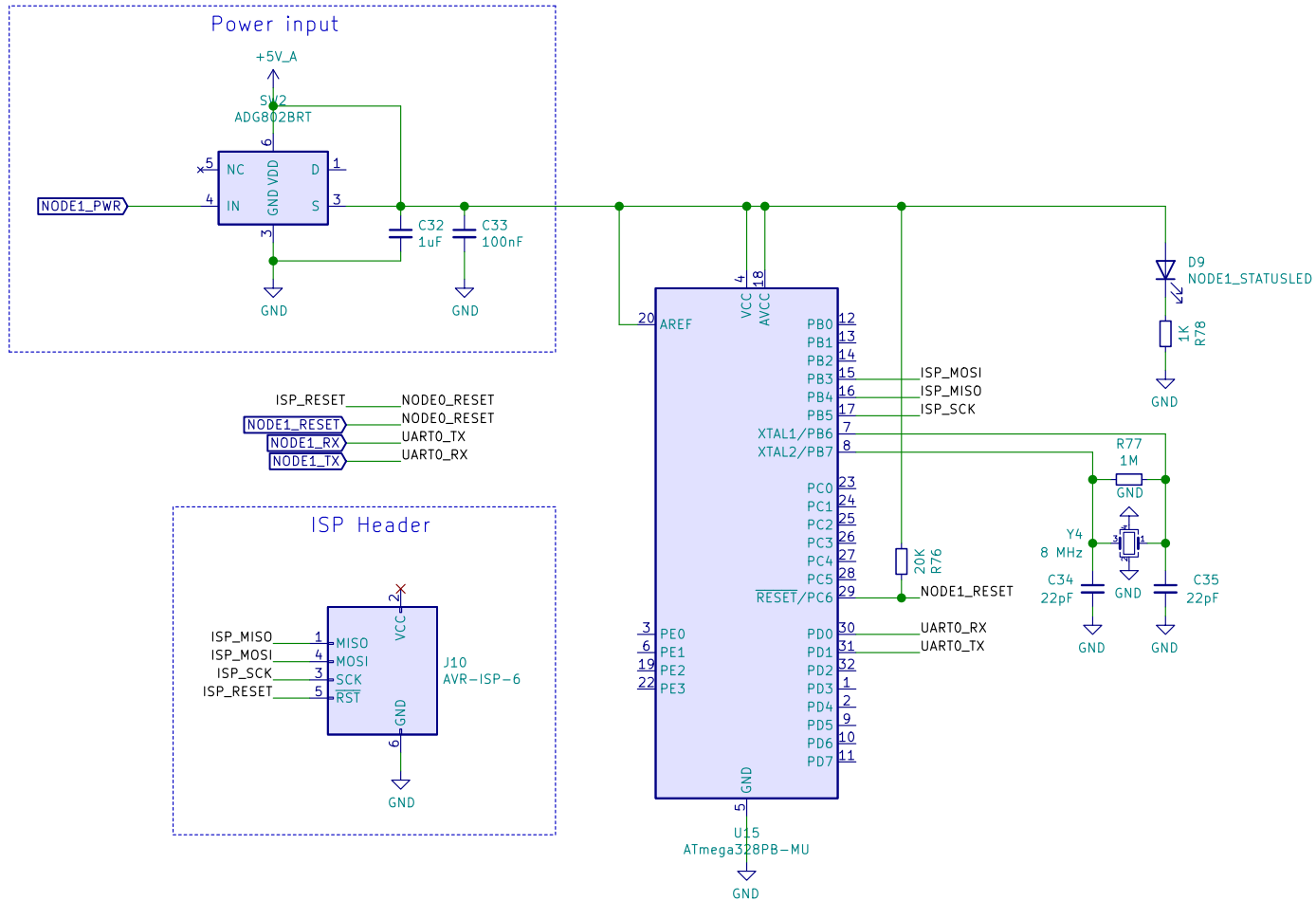
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 3/18

MCU Node 1



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node1.sch

Title: YktSat Payload Module

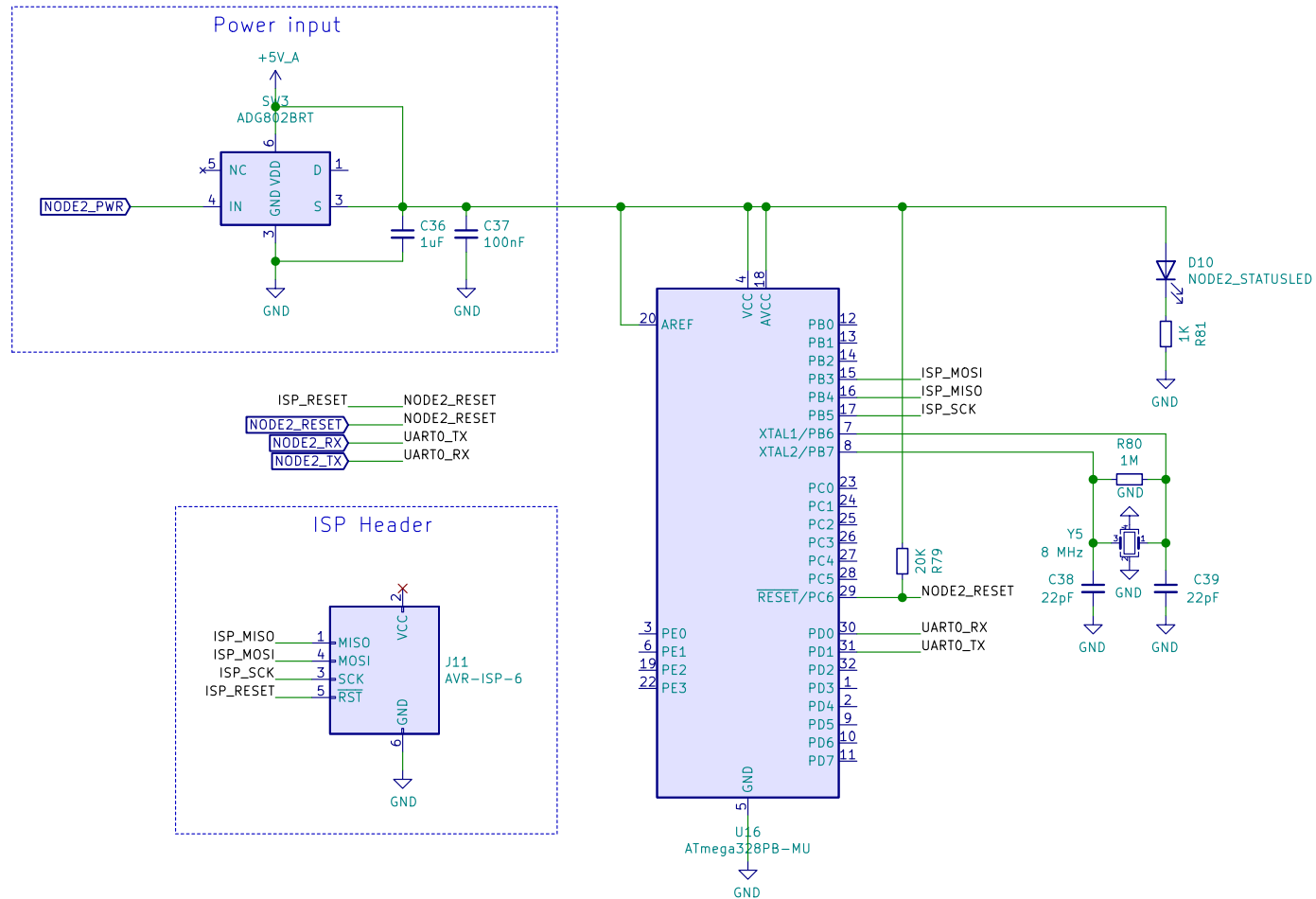
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 4/18

MCU Node 2



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node2.sch

Title: YktSat Payload Module

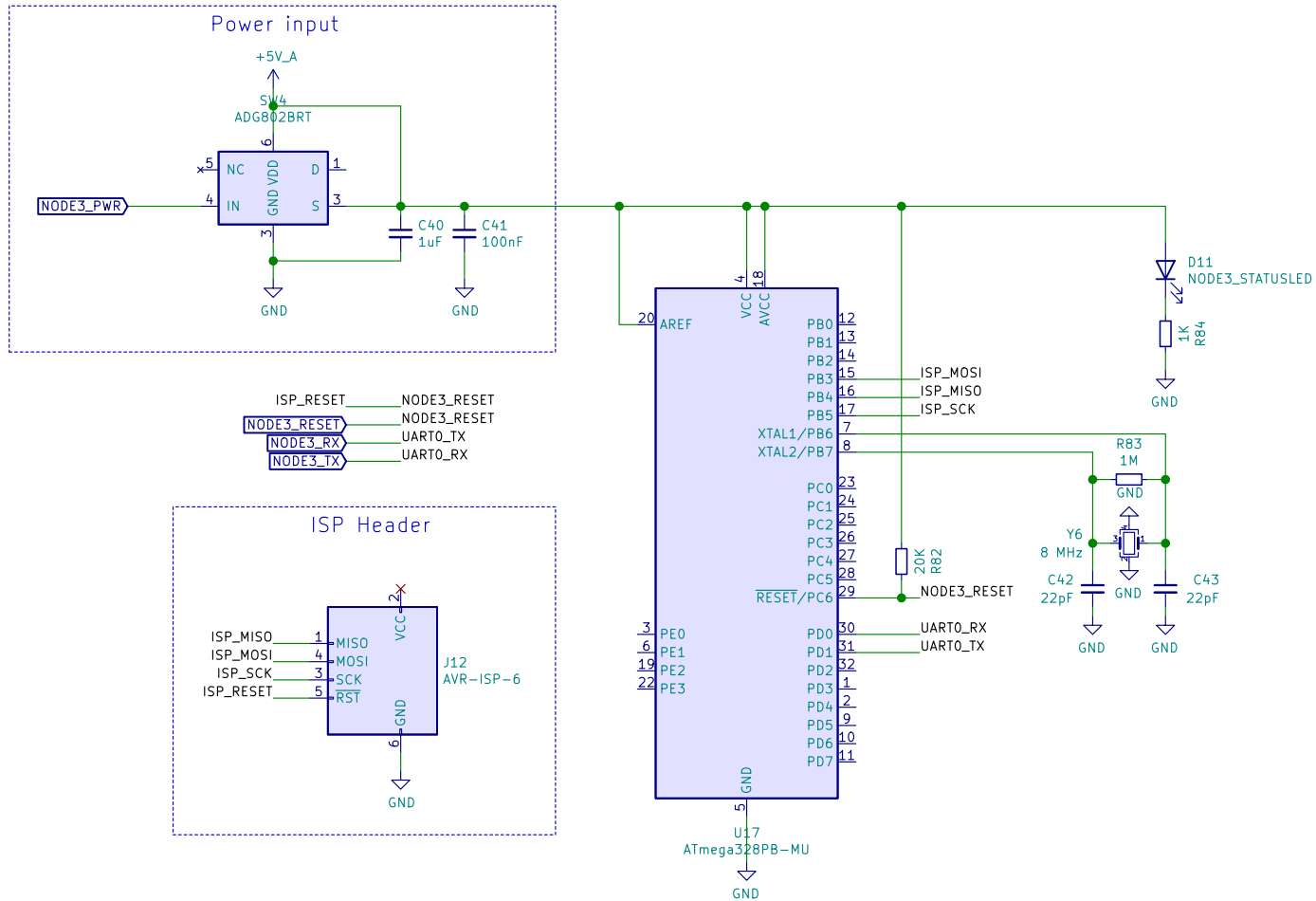
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KiCad E.D.A.	kiCad (5.1.8)-1
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Rev: A2

Id: 5/18

MCU Node 3



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node3.sch

Title: YktSat Payload Module

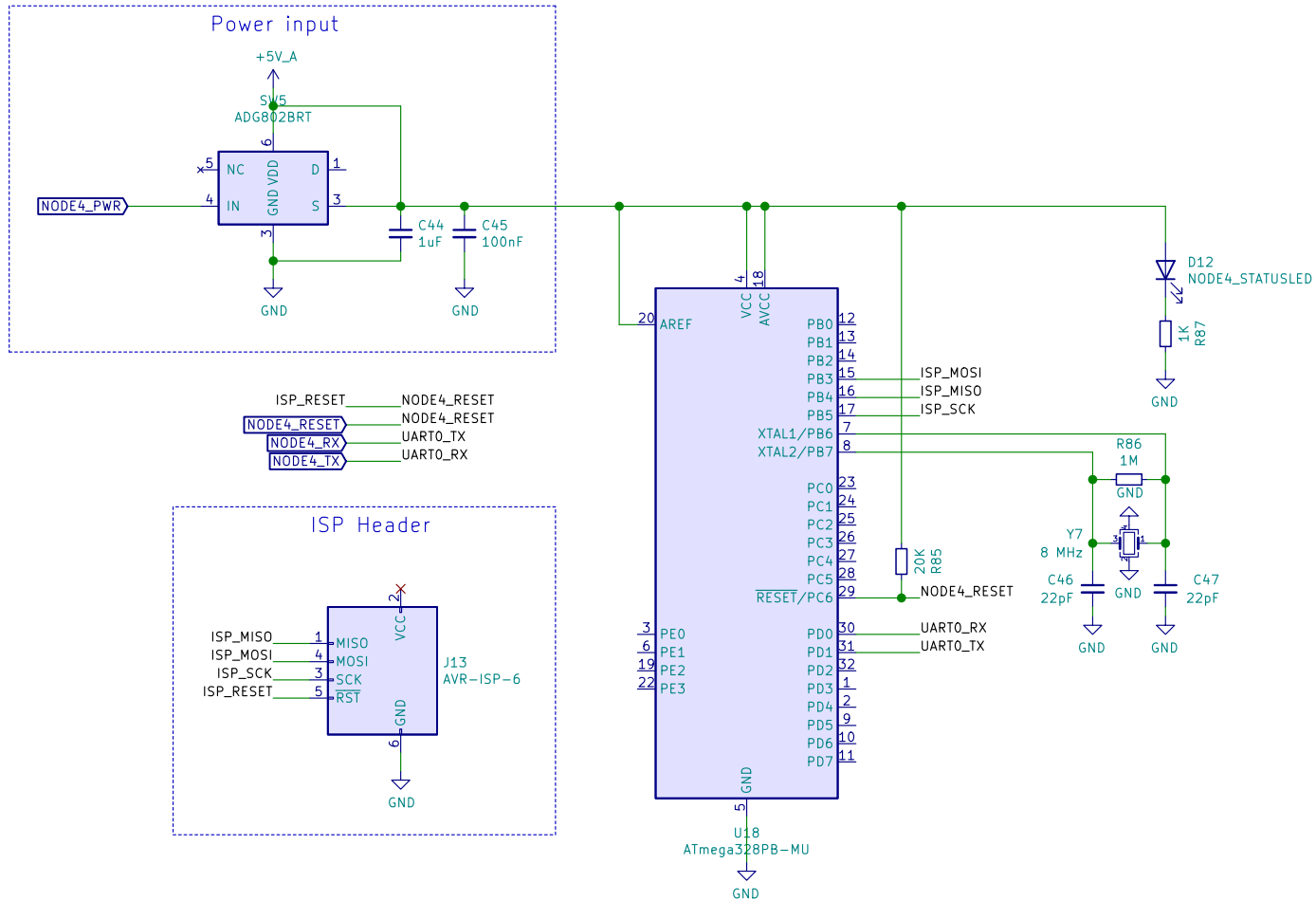
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 6/18

MCU Node 4



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node4.sch

Title: YktSat Payload Module

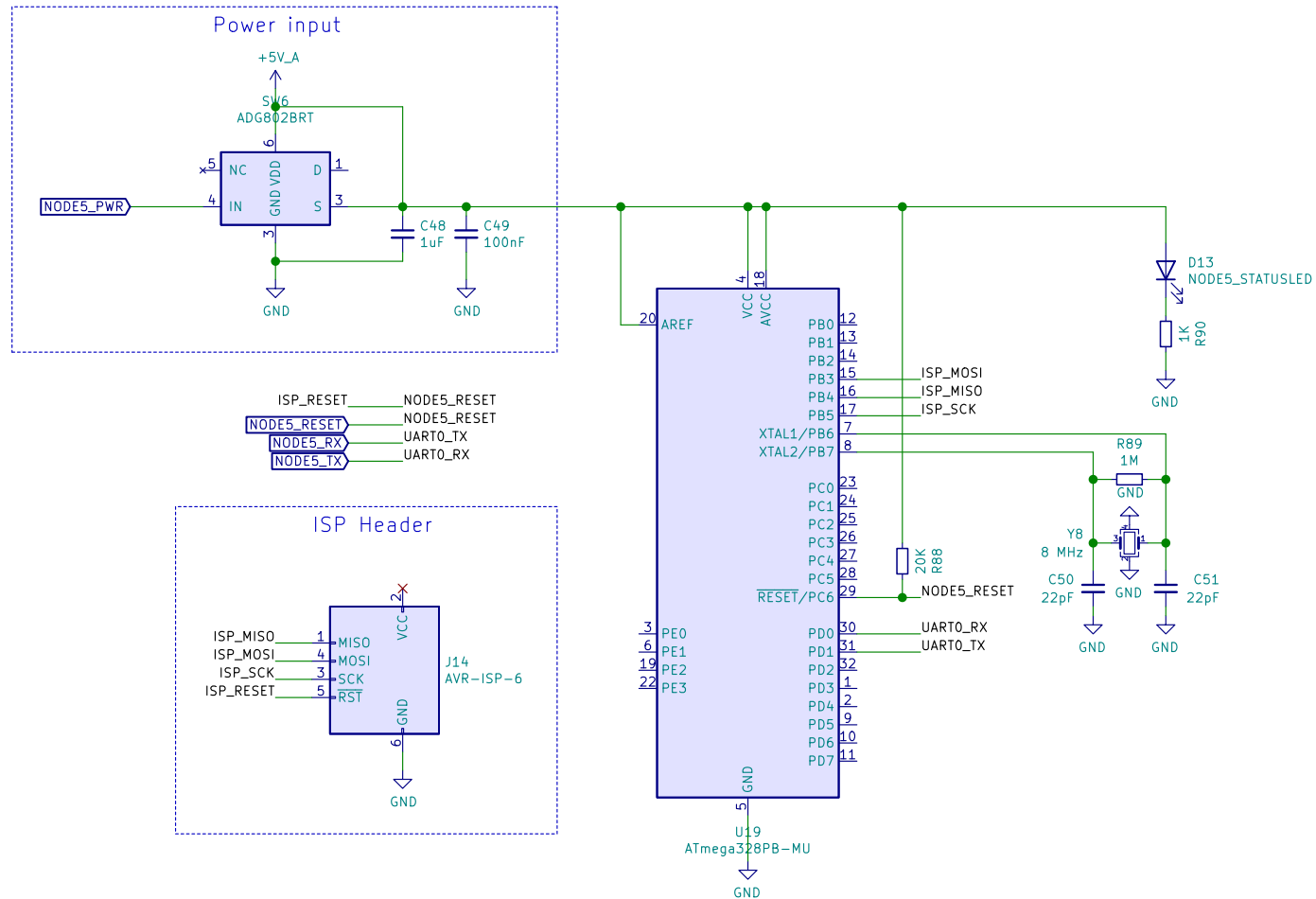
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 7/18

MCU Node 5



Sakha Aerospace Systems, LLC

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Title: YktSat Payload Module

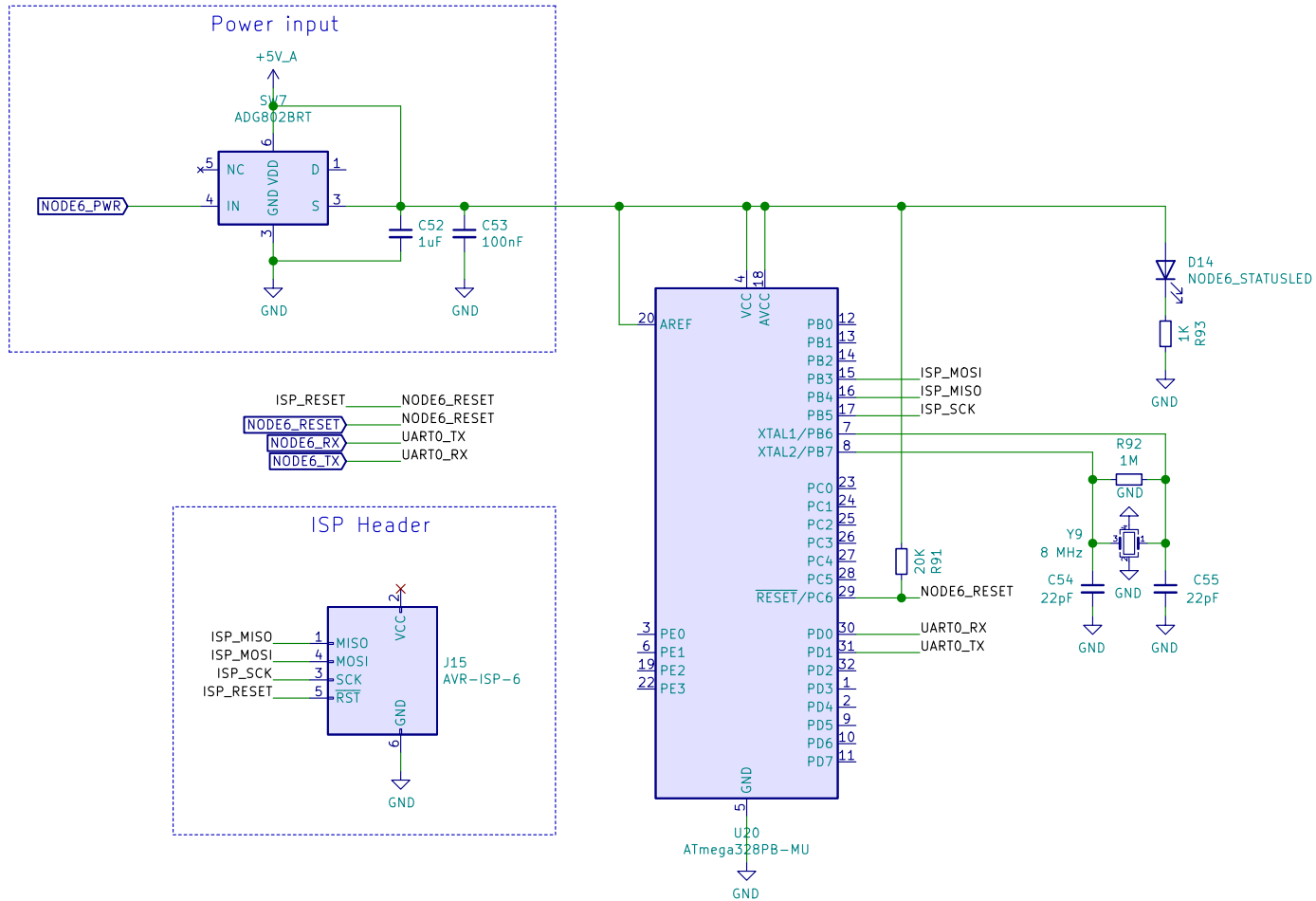
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KiCad E.D.A.	kicad (5.1.8)-1

Rev: A2

Id: 8/18

MCU Node 6



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node6/

File: ykts-mcu-node6.sch

Title: YktSat Payload Module

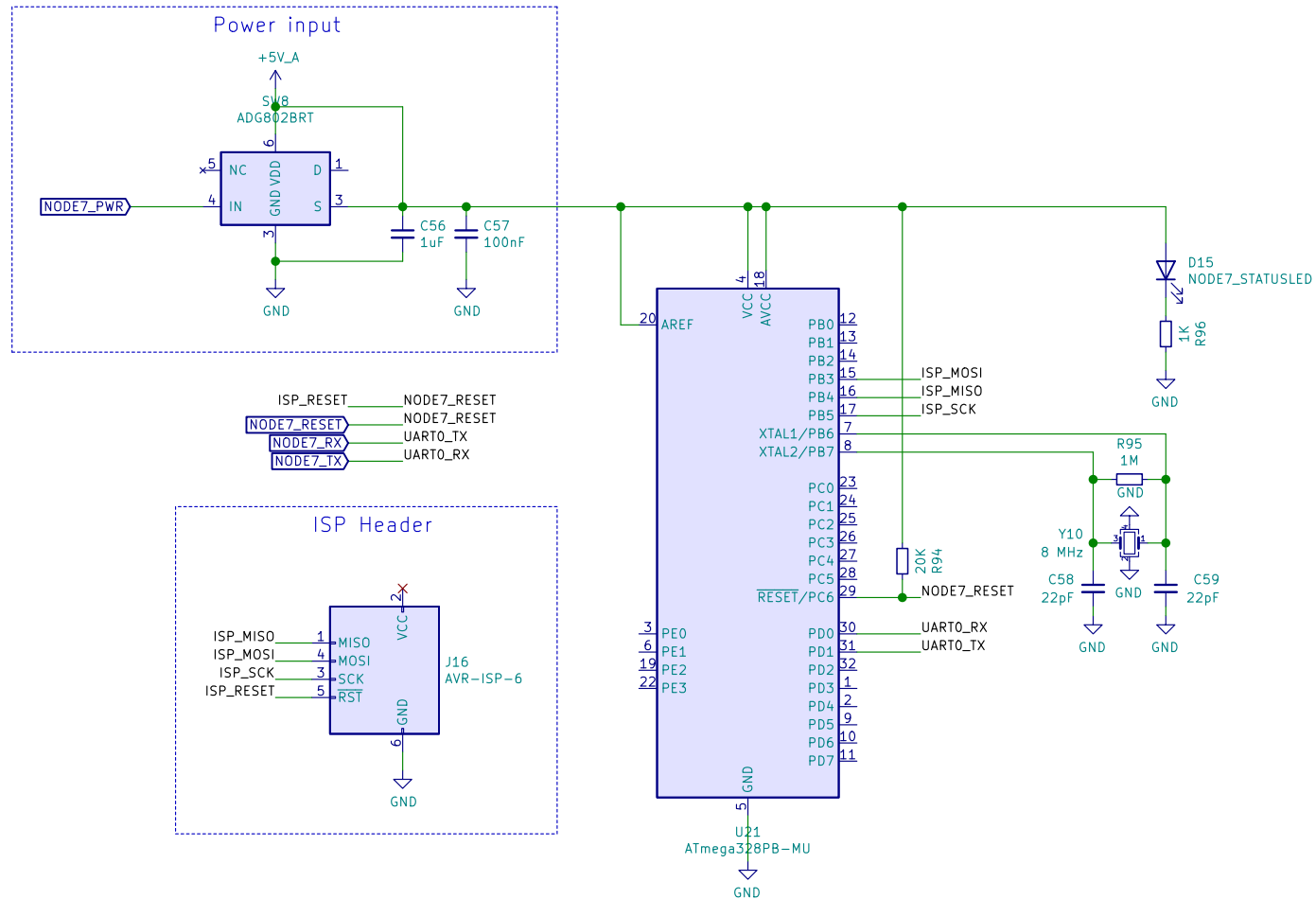
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 9/18

MCU Node 7



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node7/
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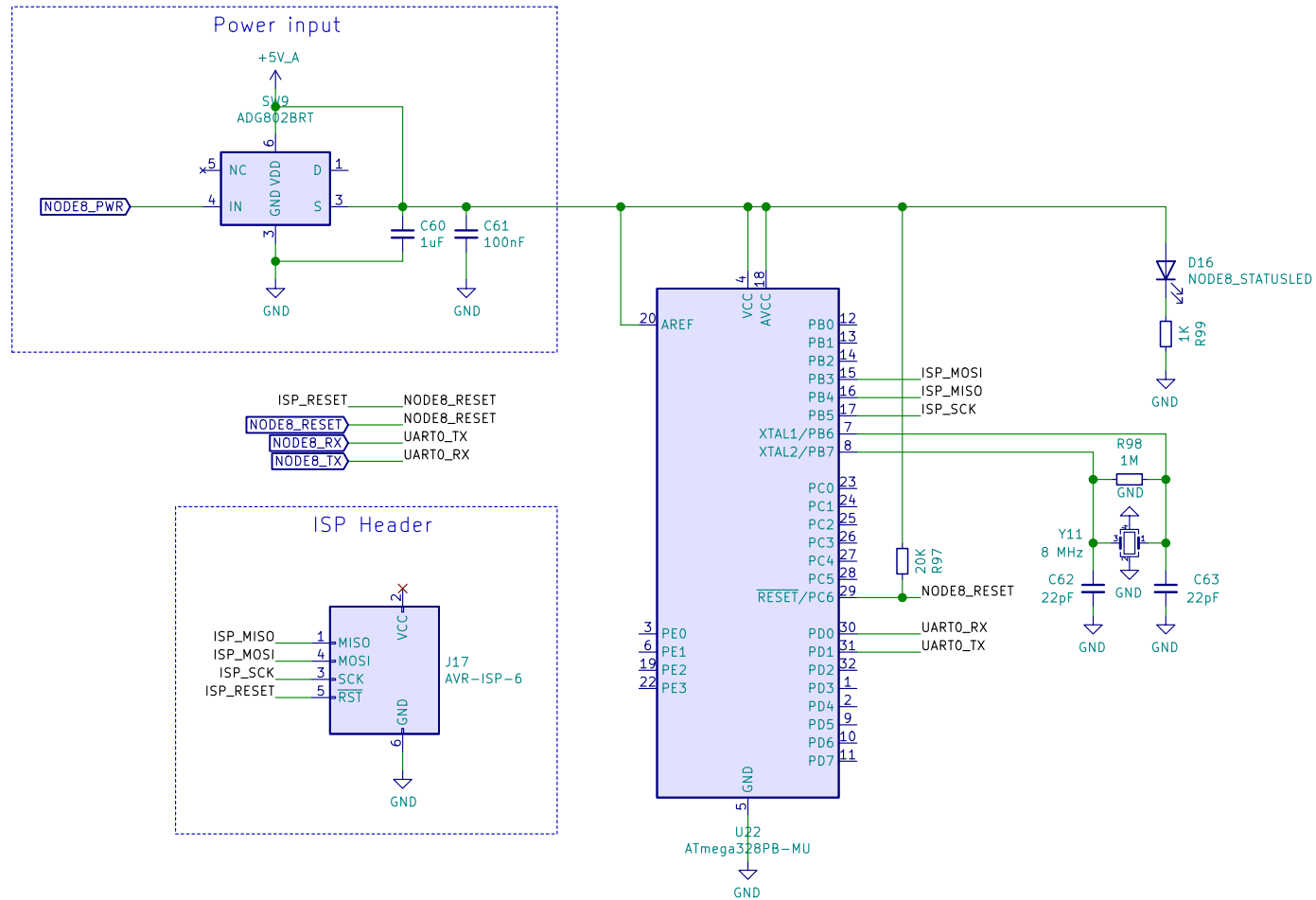
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KiCad E.D.A.	kiCad (5.1.8)-1
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Rev: A2

Id: 10/18

MCU Node 8



Sakha Aerospace Systems, LLC

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Title: YktSat Payload Module

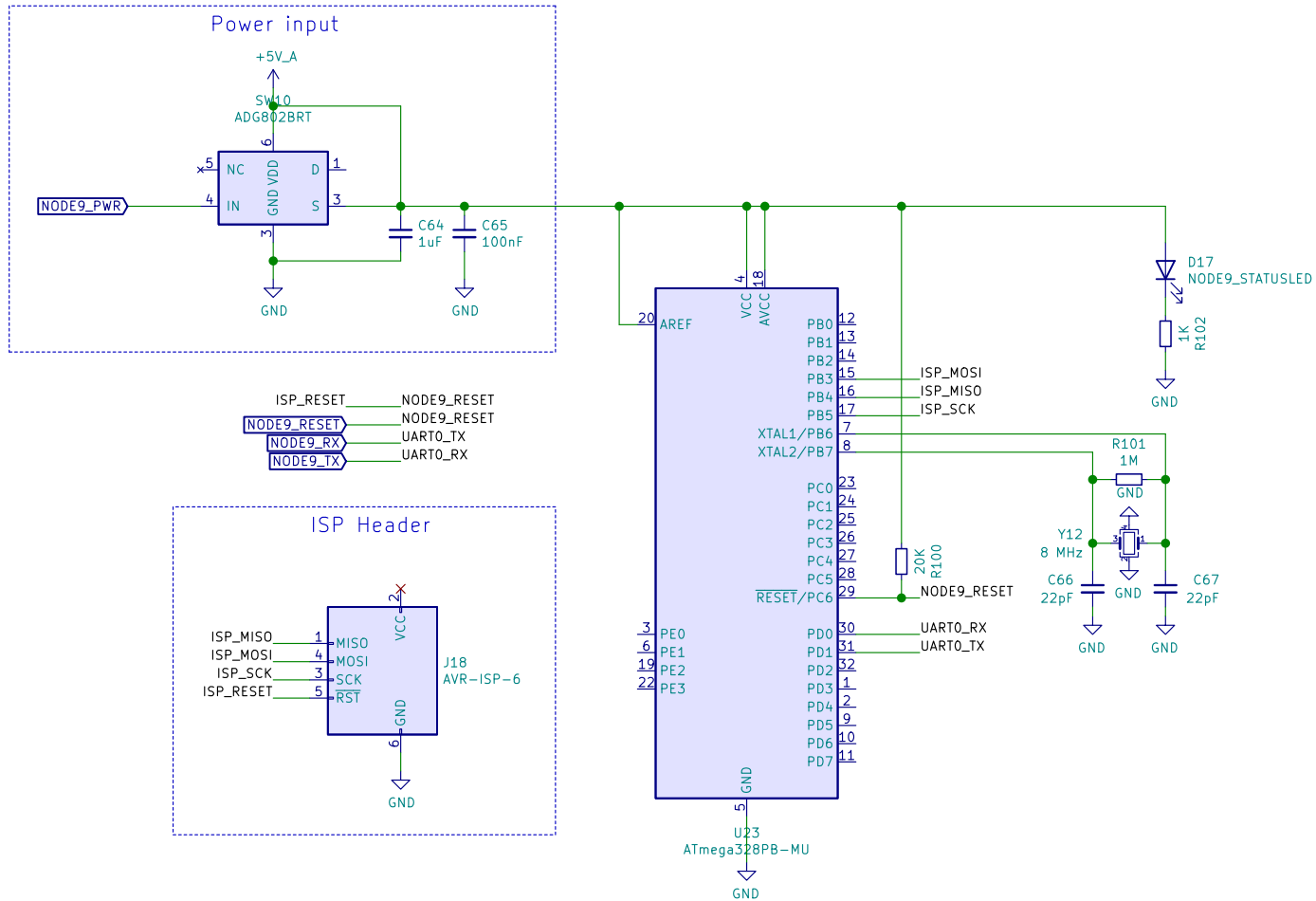
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KiCad E.D.A.	kiCad (5.1.8)-1
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Rev: A2

Id: 11/18

MCU Node 9



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node9.sch

Title: YktSat Payload Module

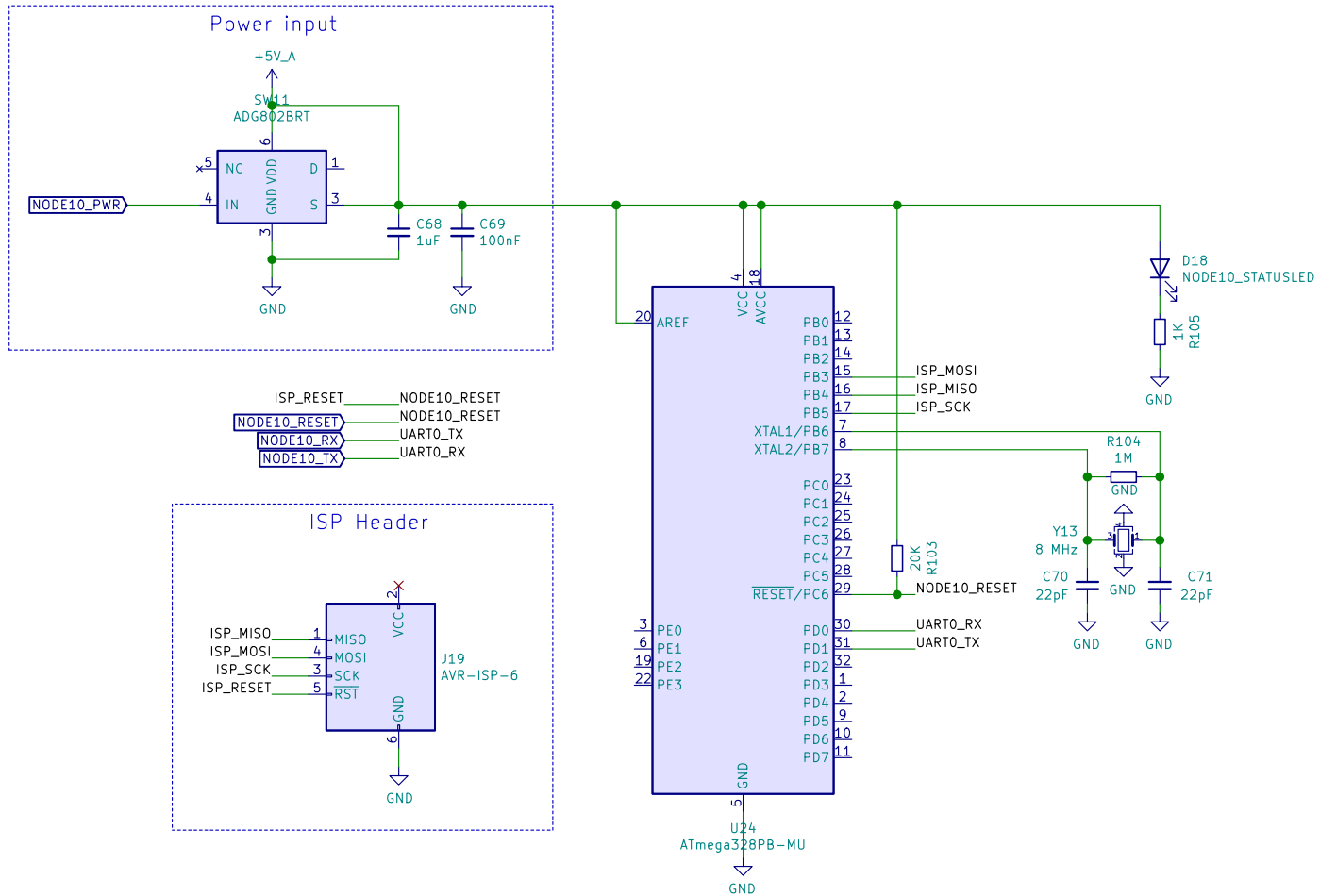
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 12/18

MCU Node 10



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node10/
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Title: YktSat Payload Module

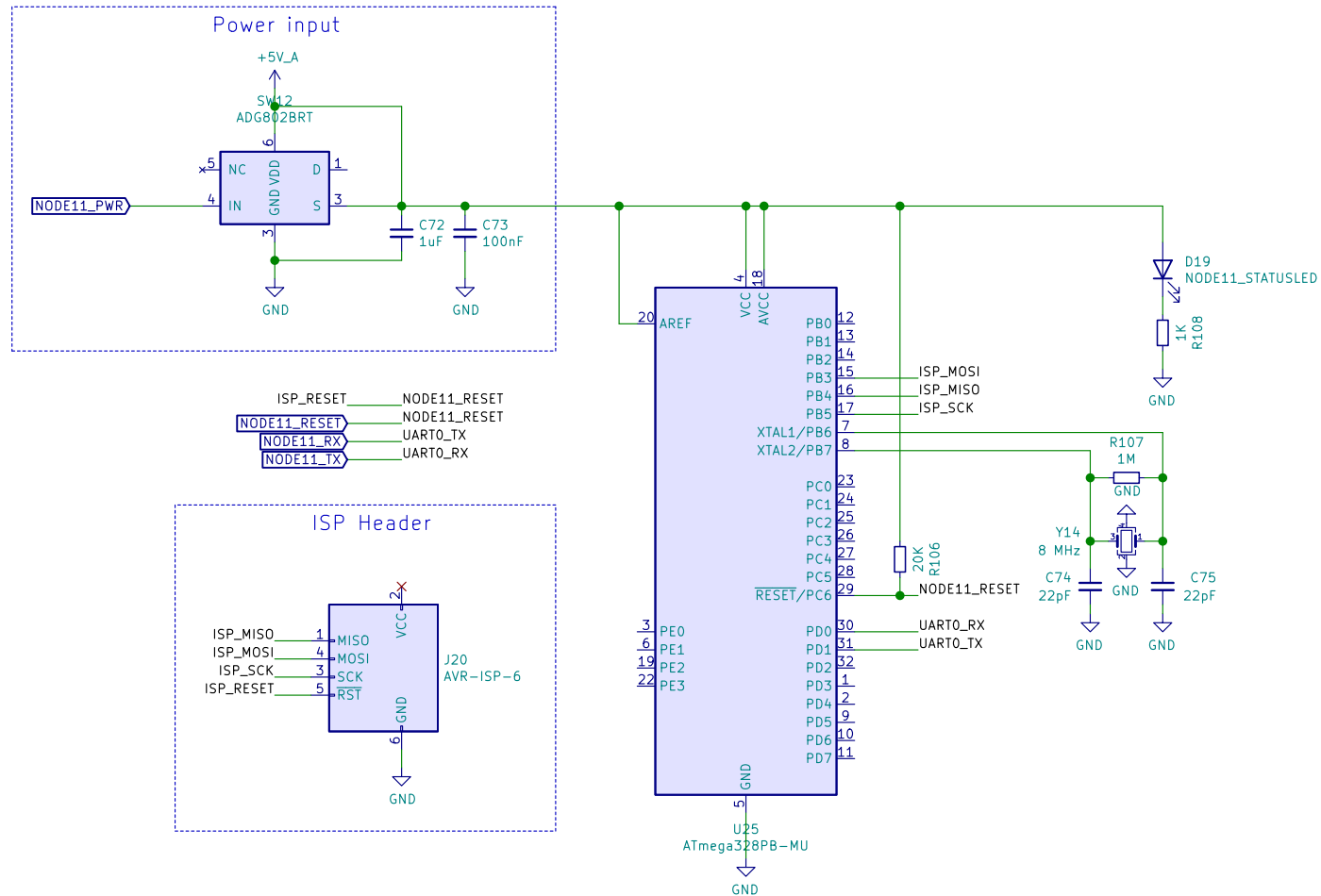
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 13/18

MCU Node 11



Sakha Aerospace Systems, LLC

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Title: YktSat Payload Module

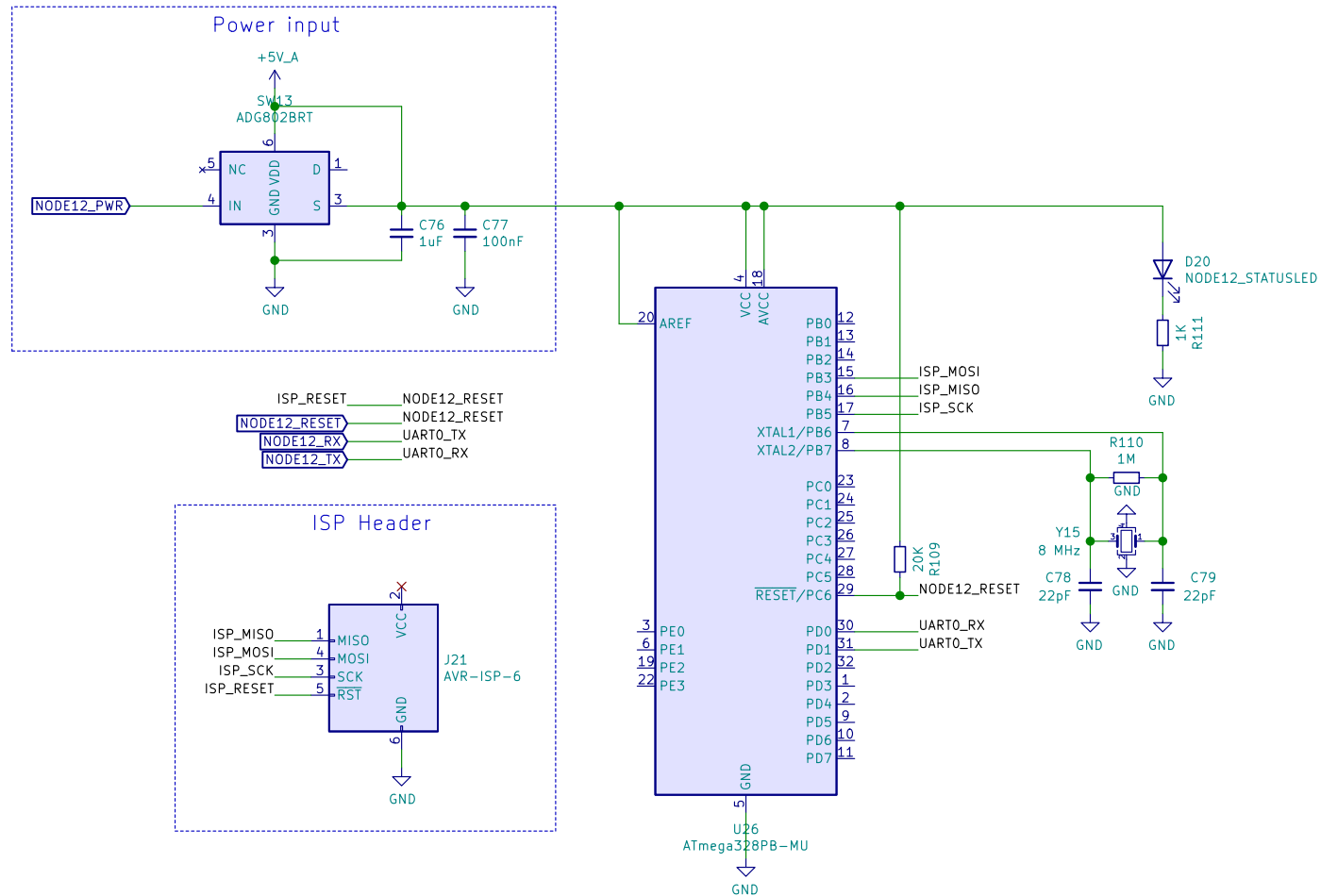
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KiCad E.D.A.	kiCad (5.1.8)-1
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Rev: A2

Id: 14/18

MCU Node 12



Sakha Aerospace Systems, LLC

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File: ykts-mcu-node12.sch

Title: YktSat Payload Module

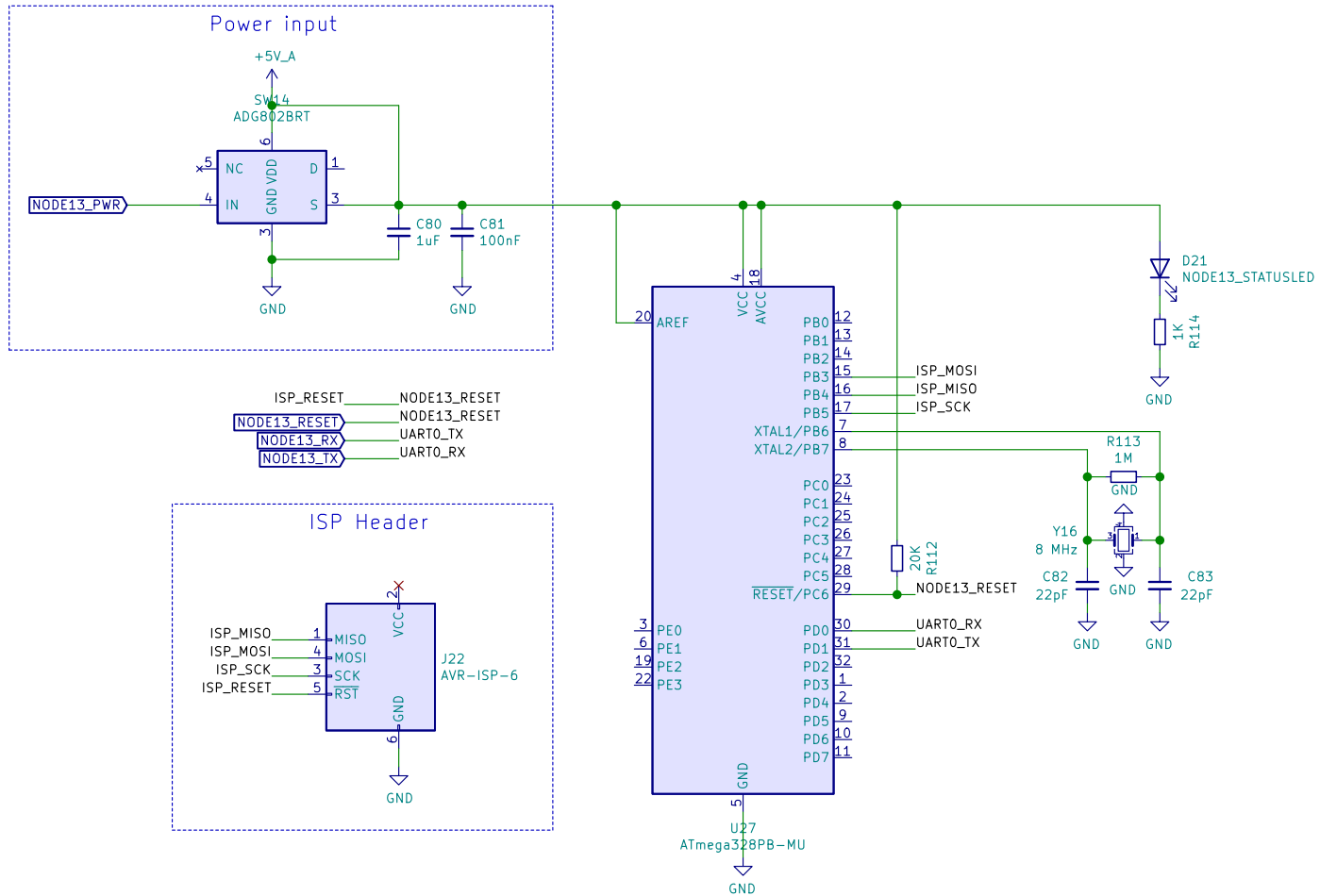
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SIZE: A1	Date: 2021
KiCad E.D.A.	kiCad (5.1.8)-1

Rev: A2

Id: 15/18

MCU Node 13



Sakha Aerospace Systems, LLC

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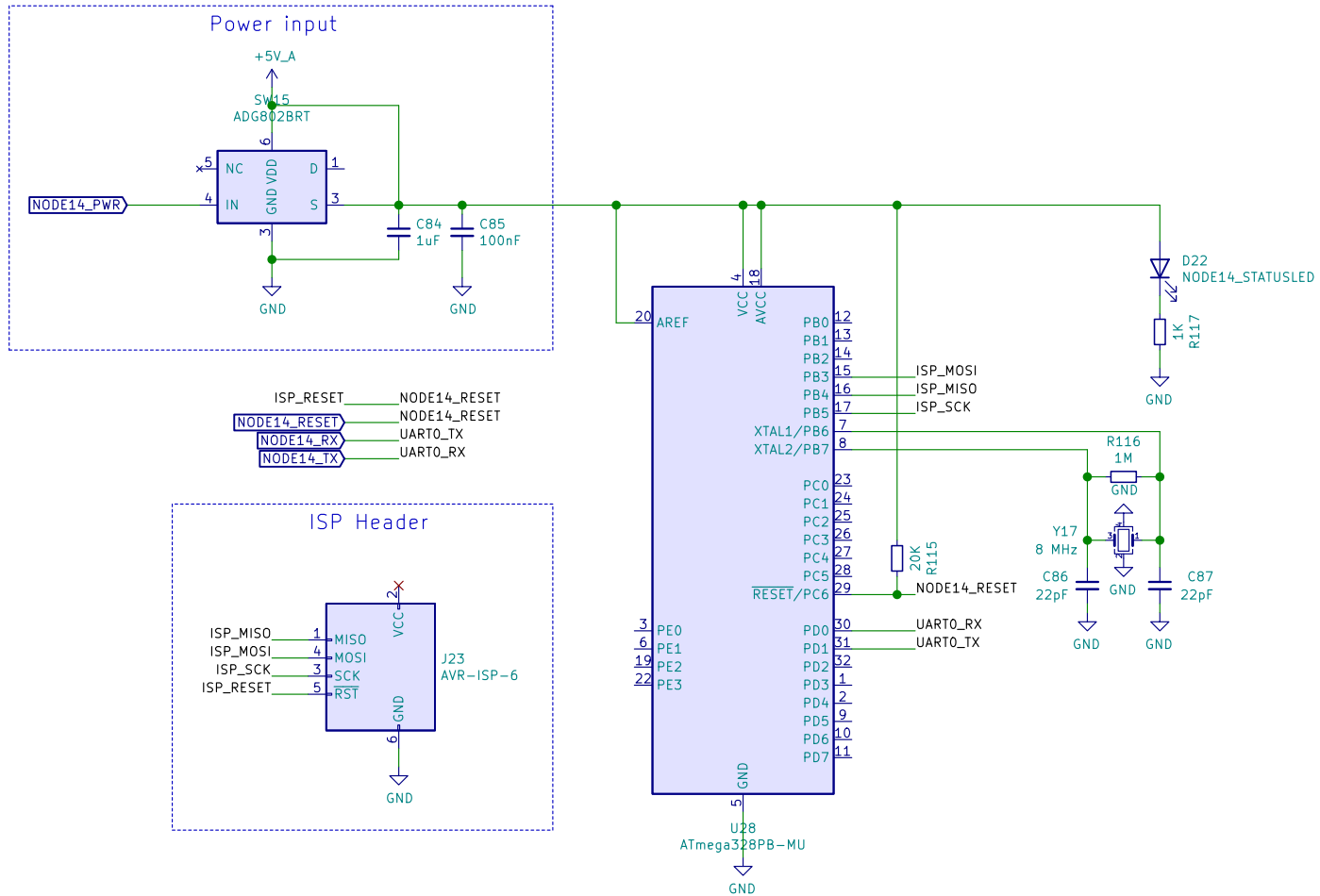
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 16/18

MCU Node 14



Sakha Aerospace Systems, LLC

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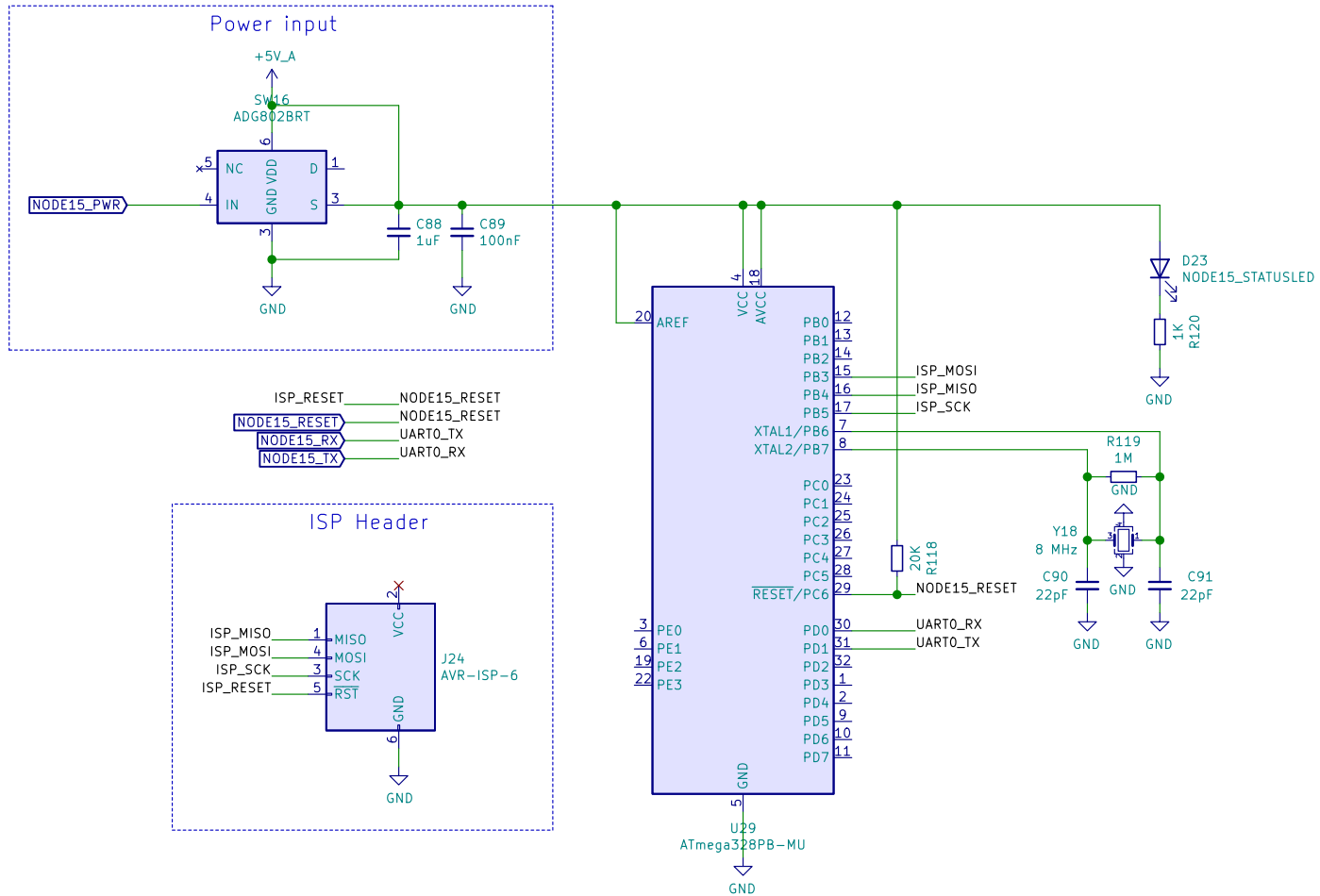
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KiCad E.D.A. kicad (5.1.8)-1

Rev: A2

Id: 17/18

MCU Node 15



Sakha Aerospace Systems, LLC

Sheet: /Payload MCU/MCU Node15/
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Title: YktSat Payload Module

Size: A4 Date: 2021-10-03

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

Rev: A2

Id: 18/18