

Sheet: Power



File: Power.sch

Sheet: Amplifier

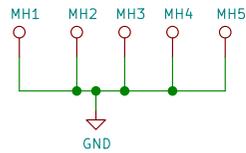


File: Amplifier.sch

Sheet: Control



File: control.sch



Design based on work by Steve Haynal KF7O and Claudio IN30TD

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Sheet: /

File: radioberry-preamp.sch

Title: Radioberry – amplifier

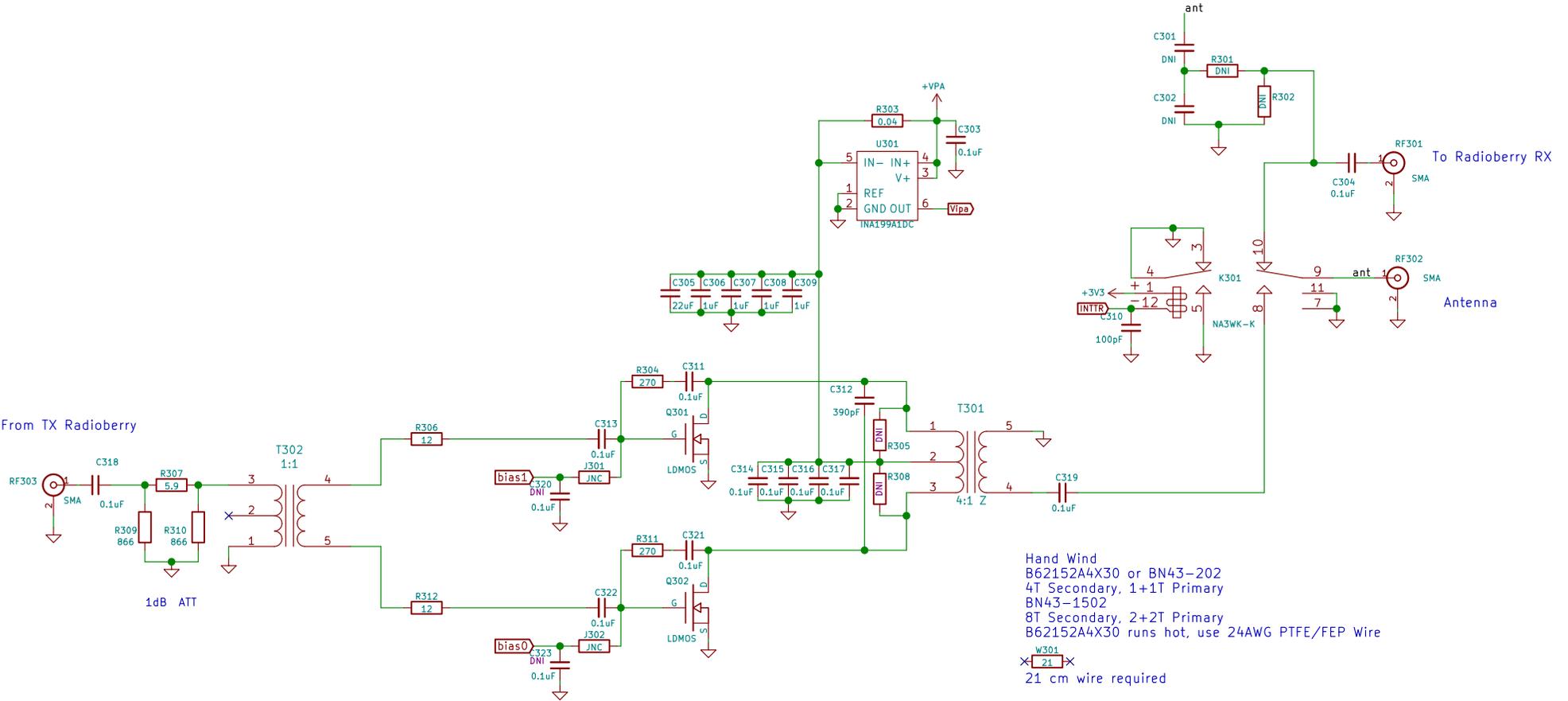
Size: A4 Date: 2020-12-18

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Rev: **beta 1**

Id: 1/4

From TX Radioberry



Hand Wind
 B62152A4X30 or BN43-202
 4T Secondary, 1+1T Primary
 BN43-1502
 8T Secondary, 2+2T Primary
 B62152A4X30 runs hot, use 24AWG PTFE/FEP Wire
 W301
 × 21 ×
 21 cm wire required

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Sheet: /Amplifier/

File: Amplifier.sch

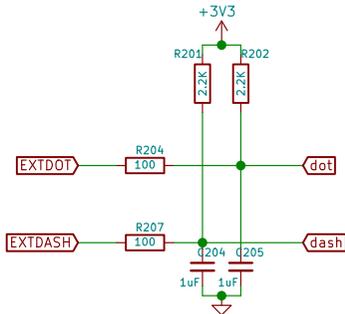
Title: Radioberry – amplifier

Size: A4 Date: 2020-12-18

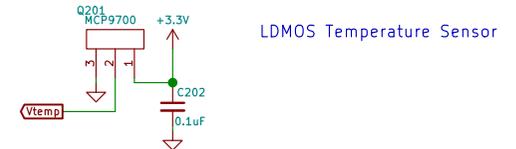
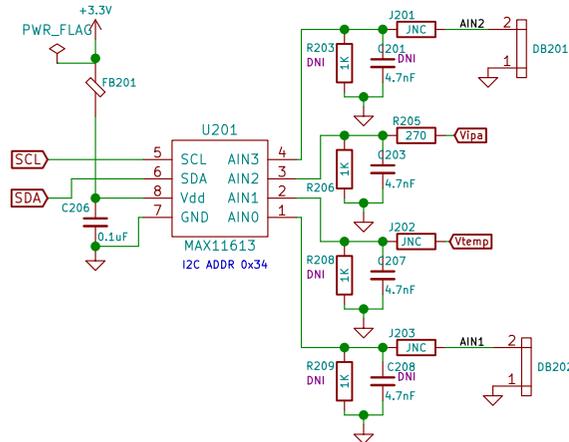
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Rev: beta 1

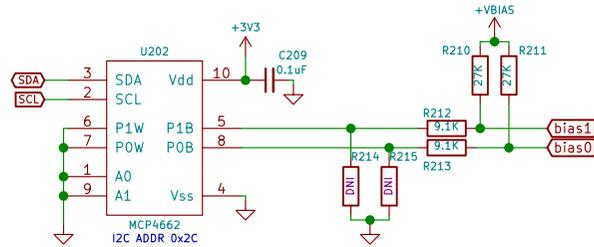
Id: 2/4



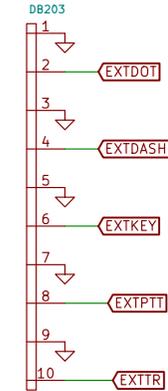
4 analog inputs
On board current and temperature
External fwd/rev with AIN1/AIN2



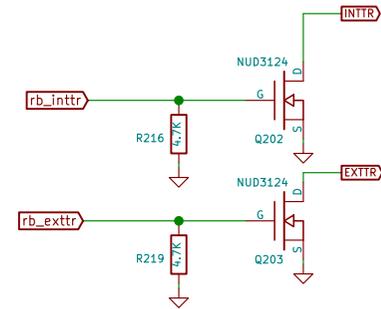
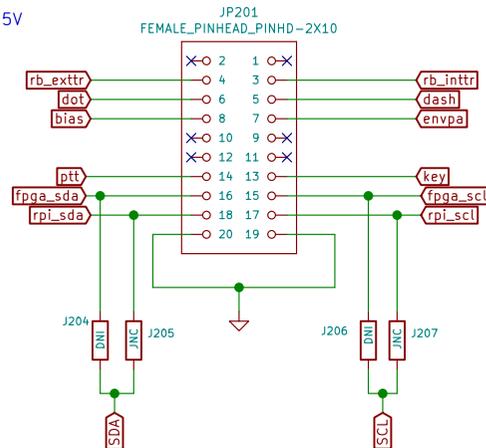
LDMOS Temperature Sensor



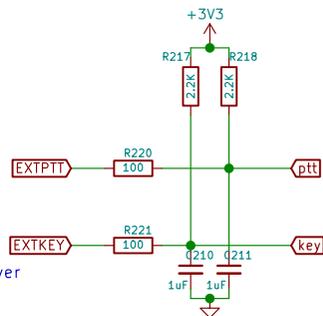
R210,R211,R212,R213 set for AFT05MS003. Bias voltage ranges from 2.5 to 3.5V



Internal PTT
May ground INTTR during TX
depending on firmware setting
Pullup to 3.3V by K2
May pullup to 28V if K2 absent



External PTT
Will ground EXTTR during TX
External PA to supply pullup
voltage up to 28V



Two input only
CW/PTT or CW keyer
Ground to key

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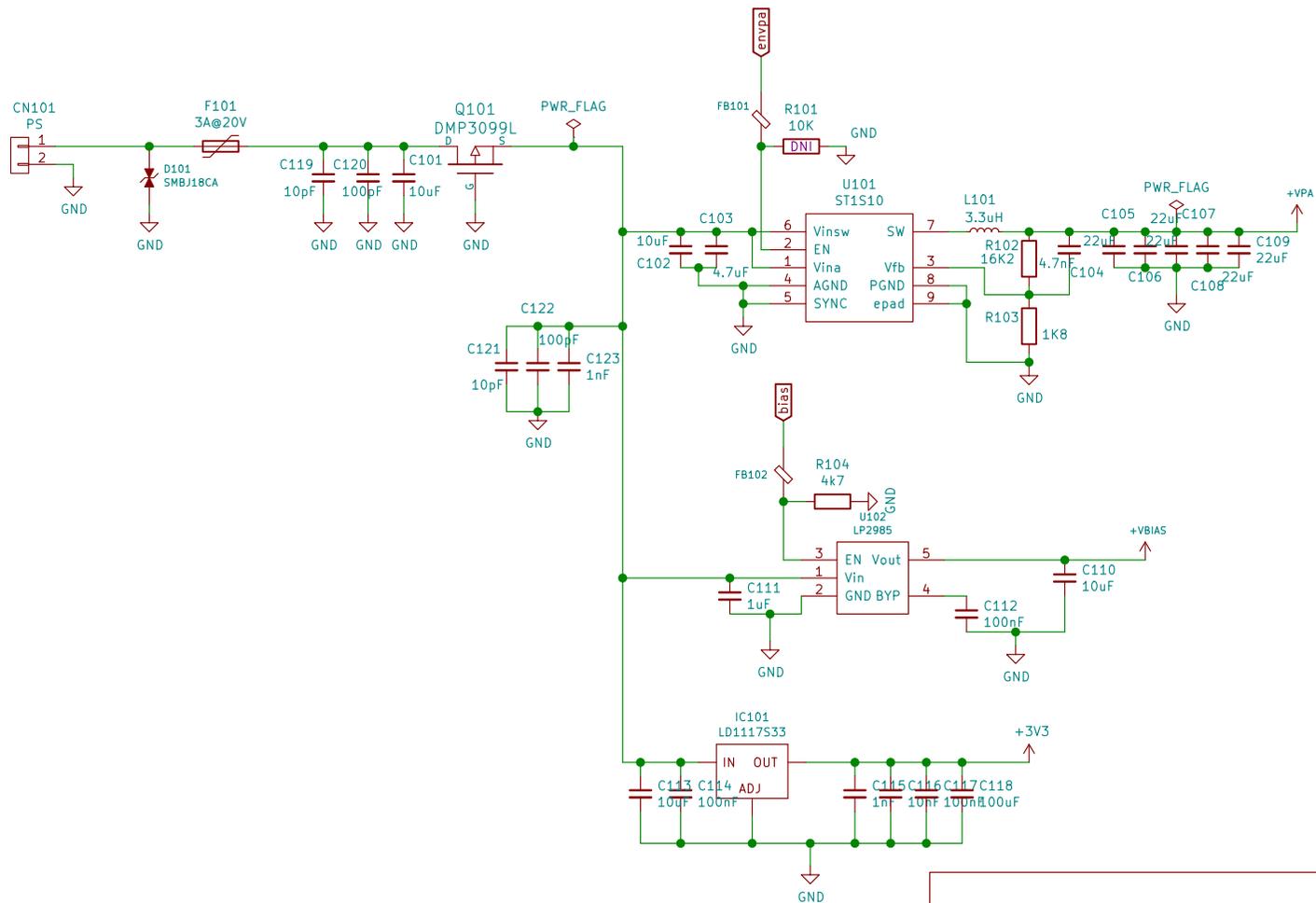
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Rev: beta 1

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Size: A4 Date: 2020-12-18

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

Rev: beta 1

Id: 4/4