

Band data



File: band_data.kicad_sch

SWR



File: SWR.kicad_sch

Current_meas



File: Current_meas.kicad_sch

cpu



File: cpu.kicad_sch

FAN_CNTRL



File: fancntrl.kicad_sch

POWER



File: power.kicad_sch

PTT



File: ptt.kicad_sch

CONNECTORS



File: connectors.kicad_sch

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Sheet: /

File: LDMOS_control_v4.kicad_sch

Title: LDMOS control unit

Size: A4

Date: 2024-04-28

Rev: v4.0

KiCad E.D.A. 8.0.3

Id: 1/9

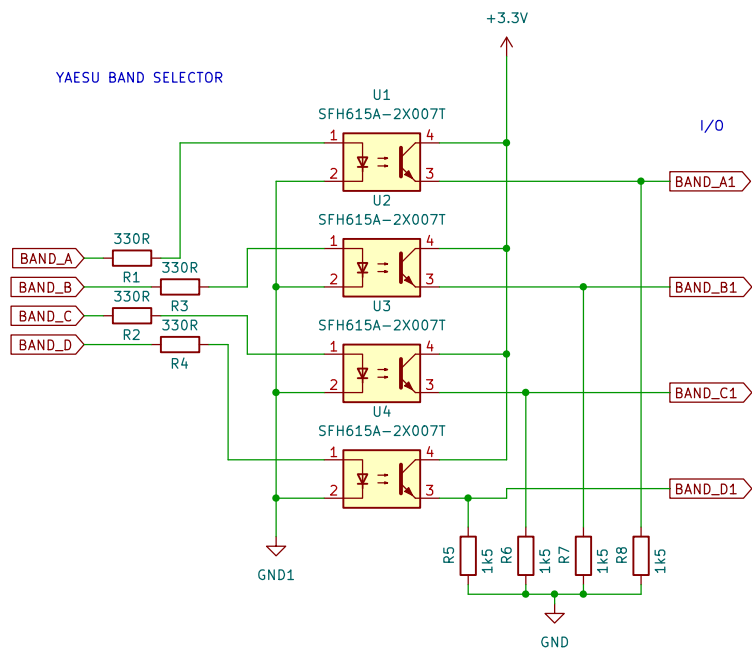
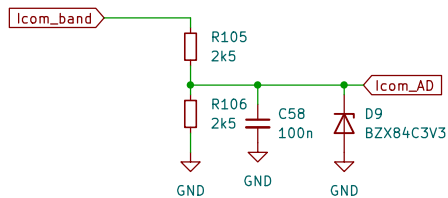


Table 1: Band vs. Voltage

Band, MHz	Band Voltage
10	0V
50 (unofficial)	1.0 ~ 2.0V
28 & 24	2.0 ~ 3.0V
18 & 21	3.0 ~ 4.0V
14	4.0 ~ 5.0V
7	5.0 ~ 6.0V
3.5	6.0 ~ 7.0V
1.8	7.0 ~ 8.0V



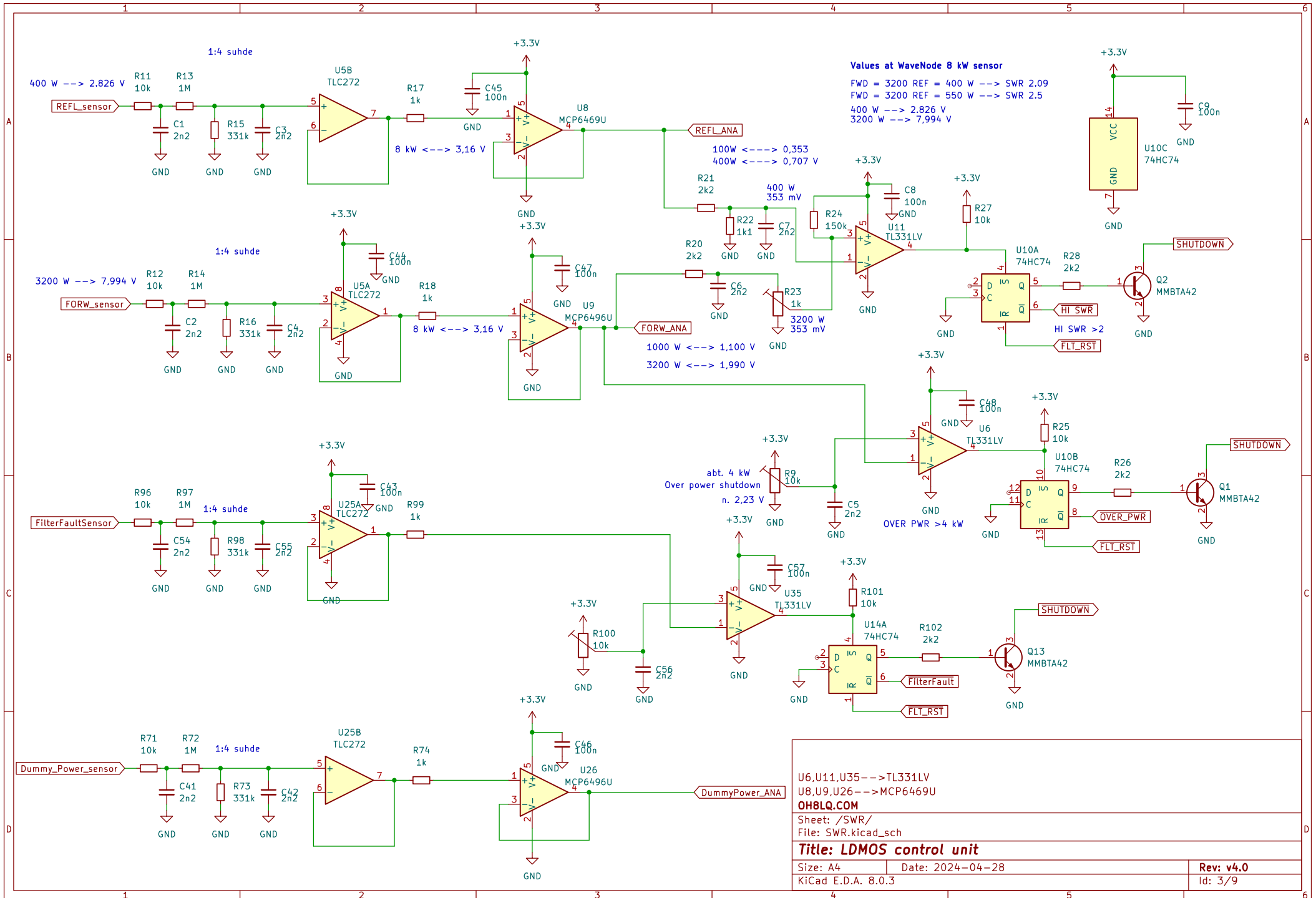
R5-R8 --->1k
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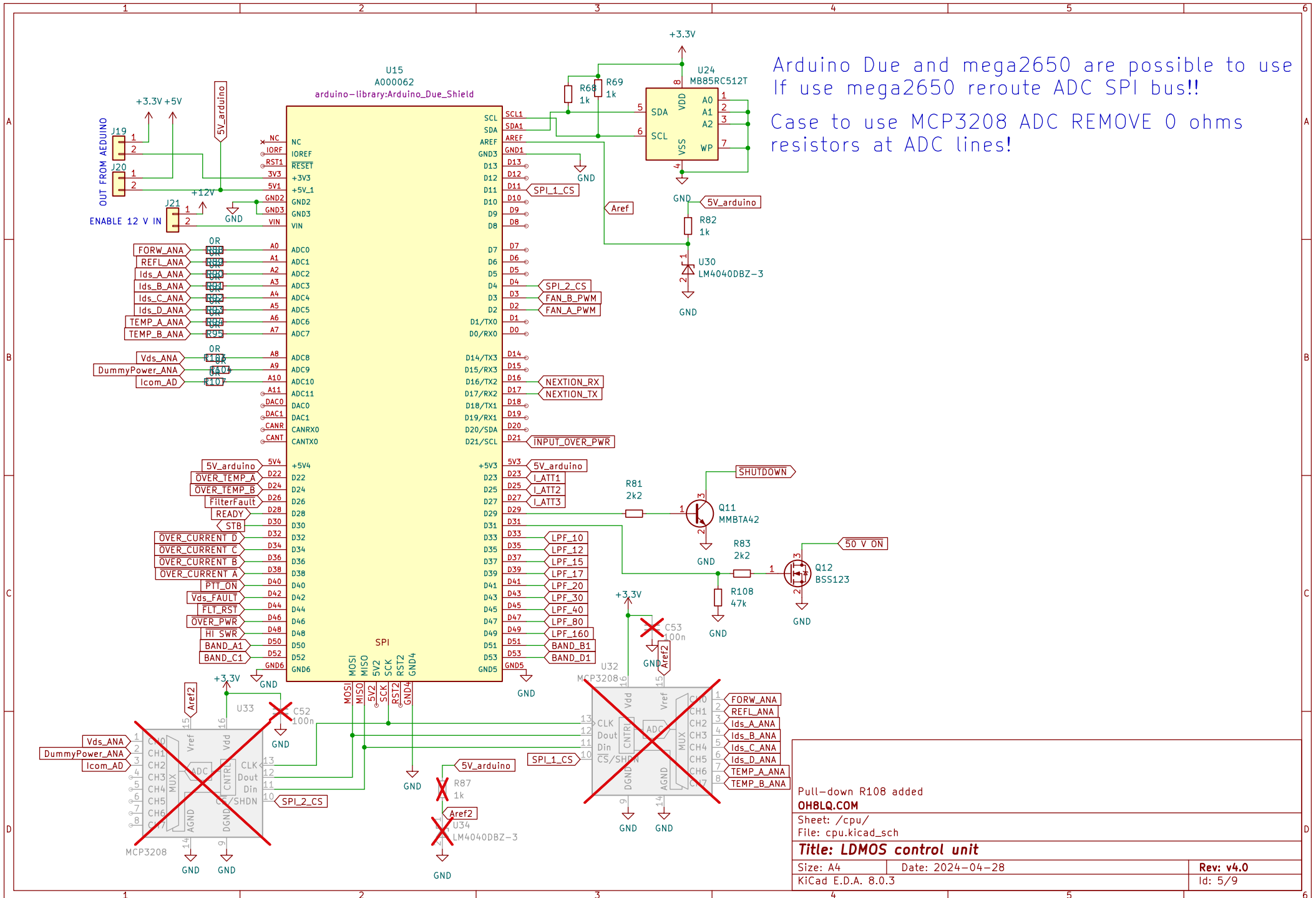


Values at WaveNode 8 kW sensor
 FWD = 3200 REF = 400 W --> SWR 2.09
 FWD = 3200 REF = 550 W --> SWR 2.5
 400 W --> 2.826 V
 3200 W --> 7.994 V

abt. 4 kW
 Over power shutdown
 n. 2,23 V

U6,U11,U35-->TL331LV
 U8,U9,U26-->MCP6469U
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 Sheet: /SWR/
 File: SWR.kicad_sch

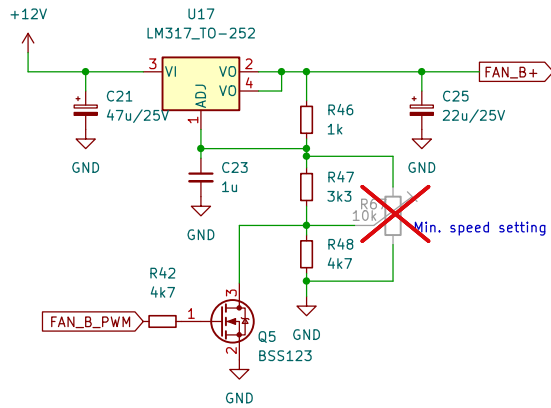
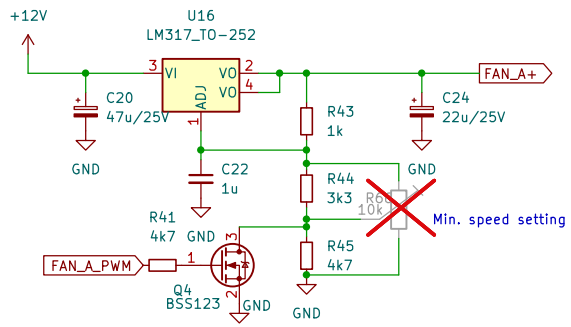
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	Id: 3/9



Arduino Due and mega2650 are possible to use
 If use mega2650 reroute ADC SPI bus!!
 Case to use MCP3208 ADC REMOVE 0 ohms
 resistors at ADC lines!

Pull-down R108 added	
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Sheet: /cpu/	
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Muutetaanko +3v3 --> 5V???????



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Sheet: /FAN_CNTRL/
File: fancntrl.kicad_sch

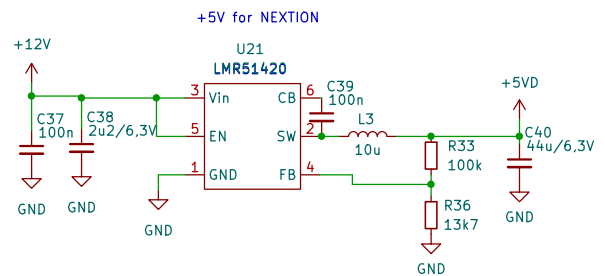
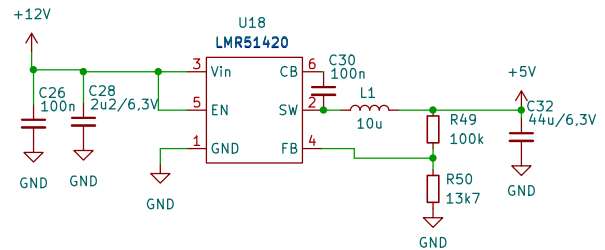
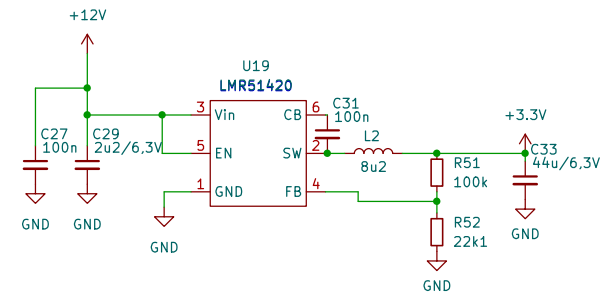
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KiCad E.D.A. 8.0.3

Rev: v4.0

Id: 6/9



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Sheet: /POWER/
File: power.kicad_sch

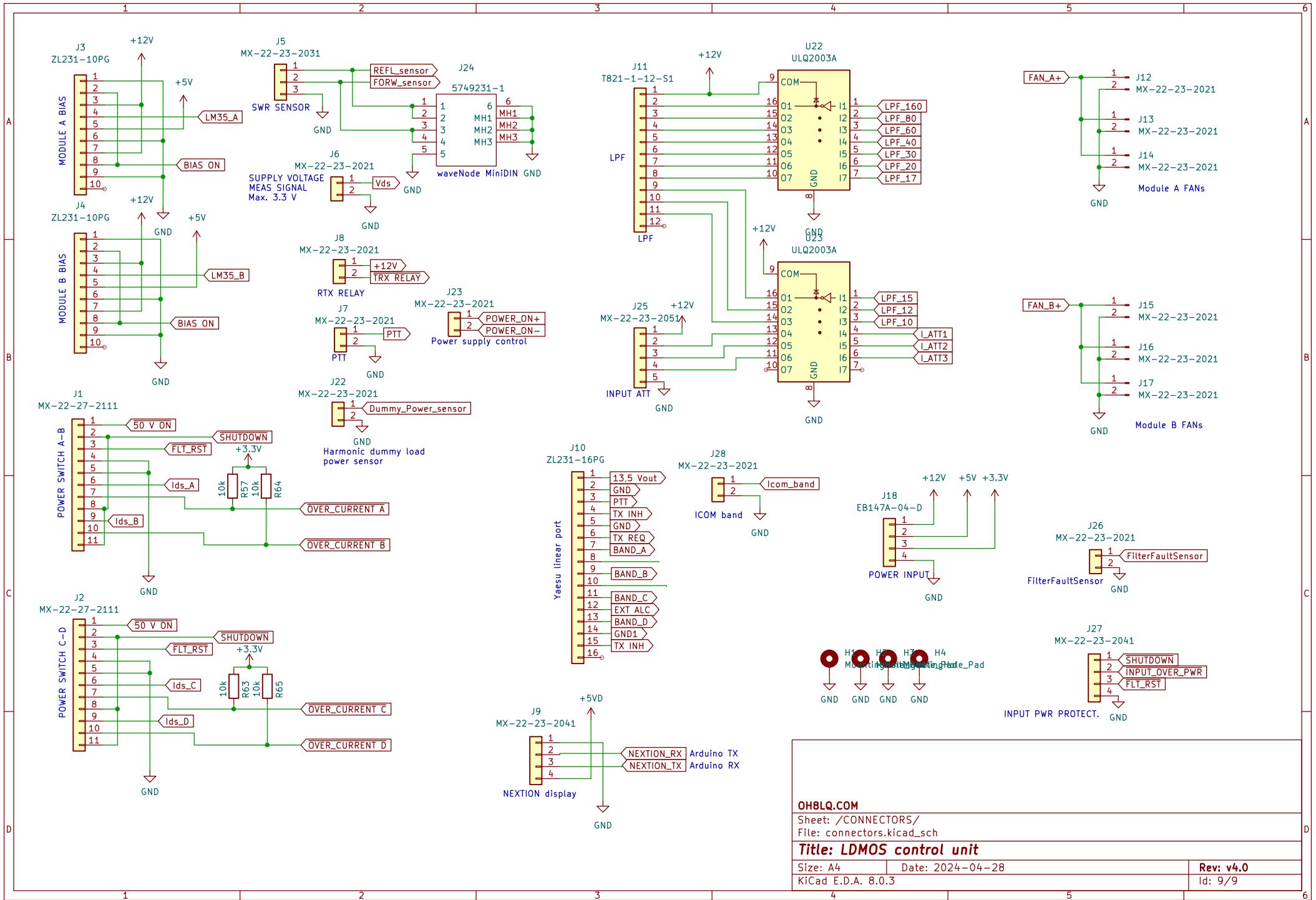
Title: LDMOS control unit

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