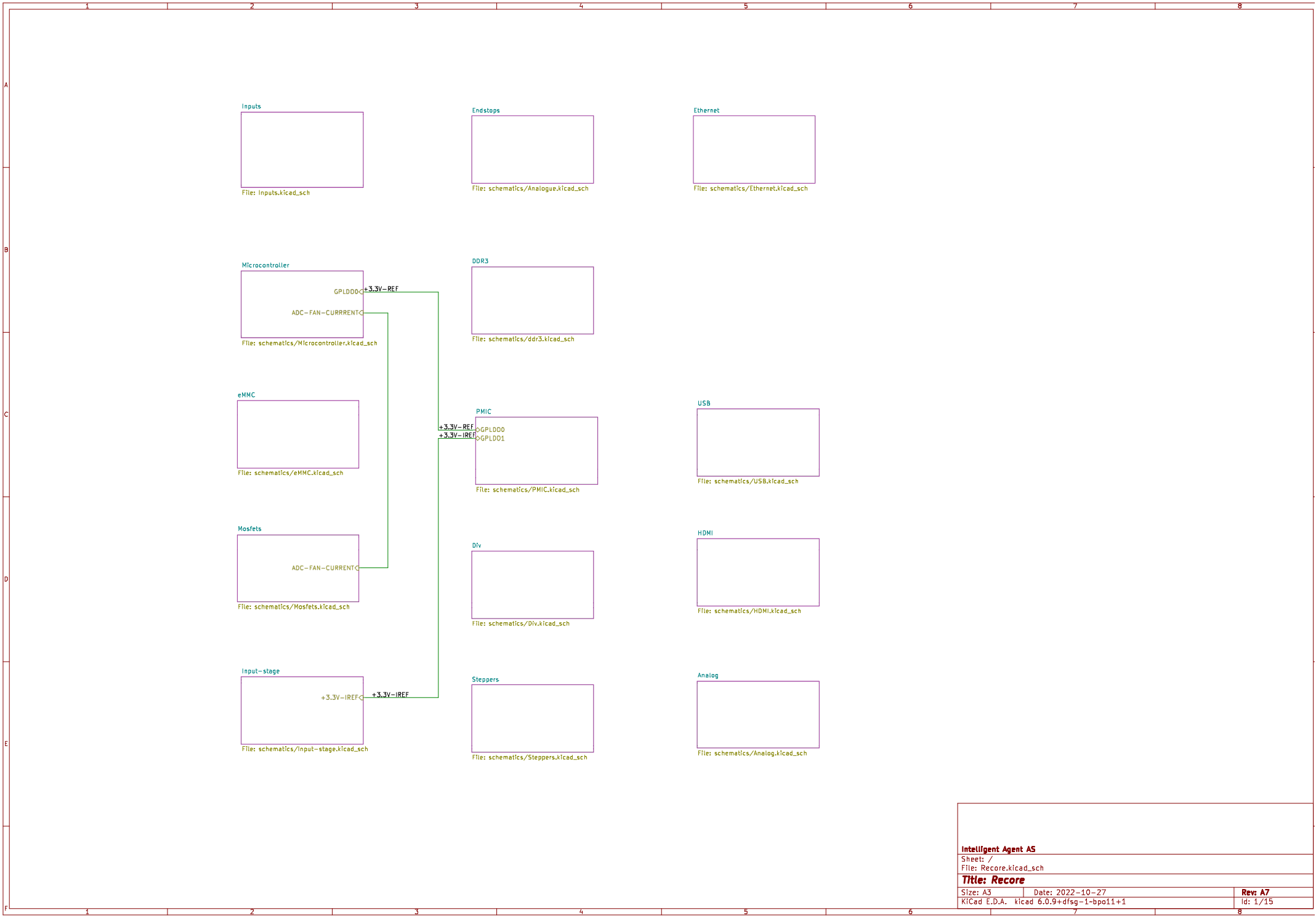
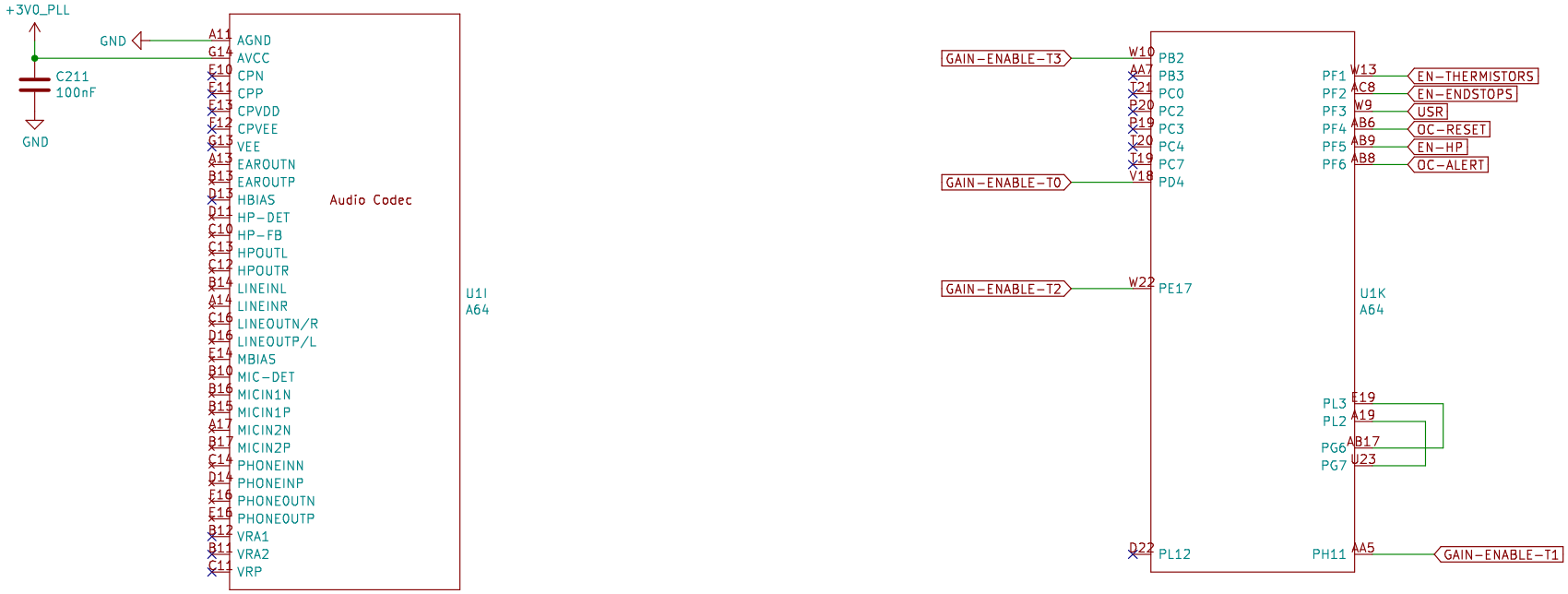

Inputs
File: Inputs.kicad_sch
Endstops
File: schematics/Analogue.kicad_sch
Ethernet
File: schematics/Ethernet.kicad_sch
Microcontroller
GPLDO0
+3.3V-REF
ADC-FAN-CURRRENT
File: schematics/Microcontroller.kicad_sch
DDR3
File: schematics/ddr3.kicad_sch
eMMC
File: schematics/eMMC.kicad_sch
PMIC
+3.3V-REF
+3.3V-IREF
GPLDO0
GPLDO1
File: schematics/PMIC.kicad_sch
USB
File: schematics/USB.kicad_sch
Mosfets
ADC-FAN-CURRENT
File: schematics/Mosfets.kicad_sch
Div
File: schematics/Div.kicad_sch
HDMI
File: schematics/HDMI.kicad_sch
Input-stage
+3.3V-IREF
+3.3V-IREF
File: schematics/Input-stage.kicad_sch
Steppers
File: schematics/Steppers.kicad_sch
Analog
File: schematics/Analog.kicad_sch
Intelligent Agent AS
Sheet: /
File: Recore.kicad_sch
Title: Recore
Size: A3
Date: 2022-10-27
Rev: A7
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1
Id: 1/15

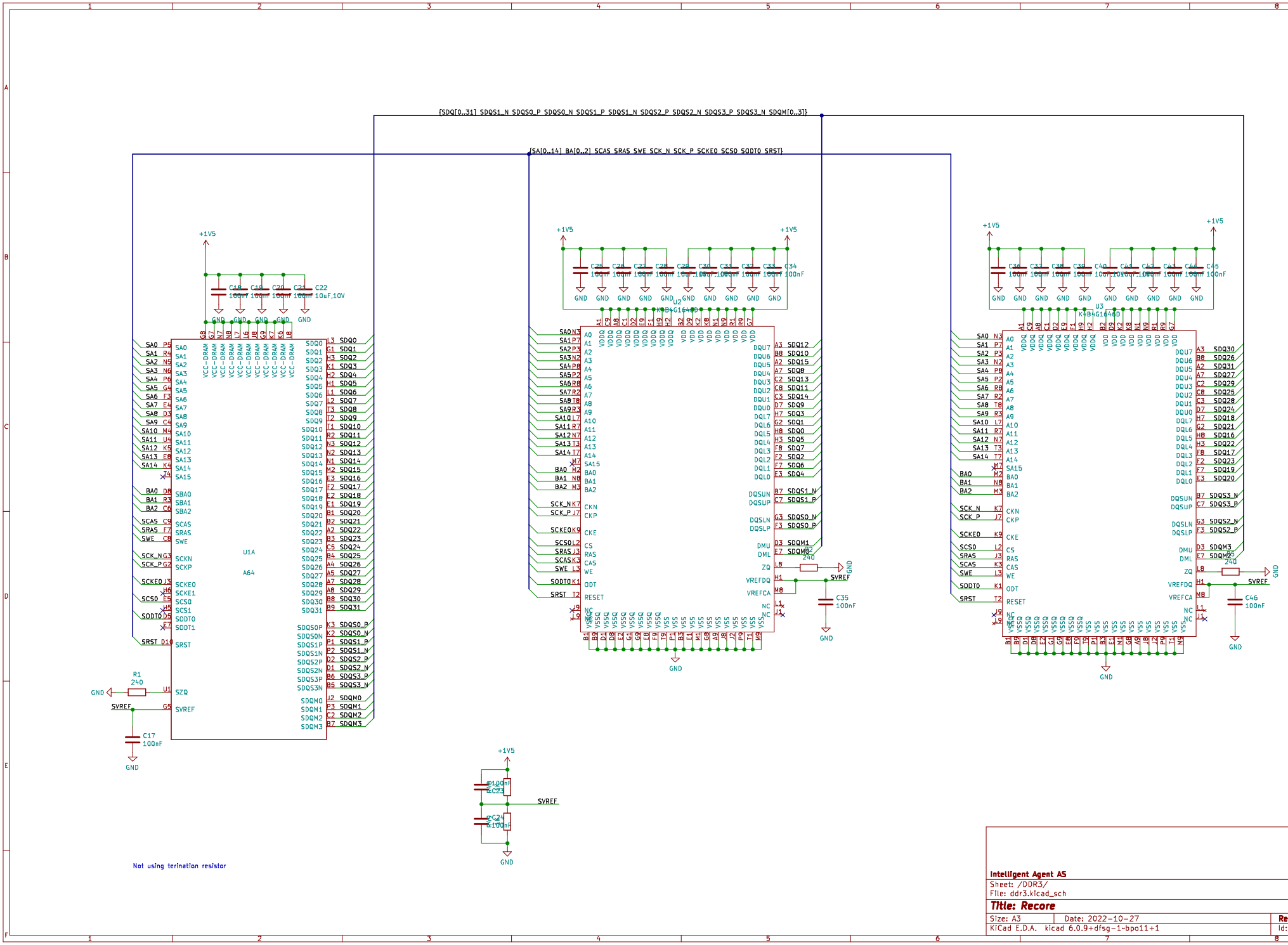


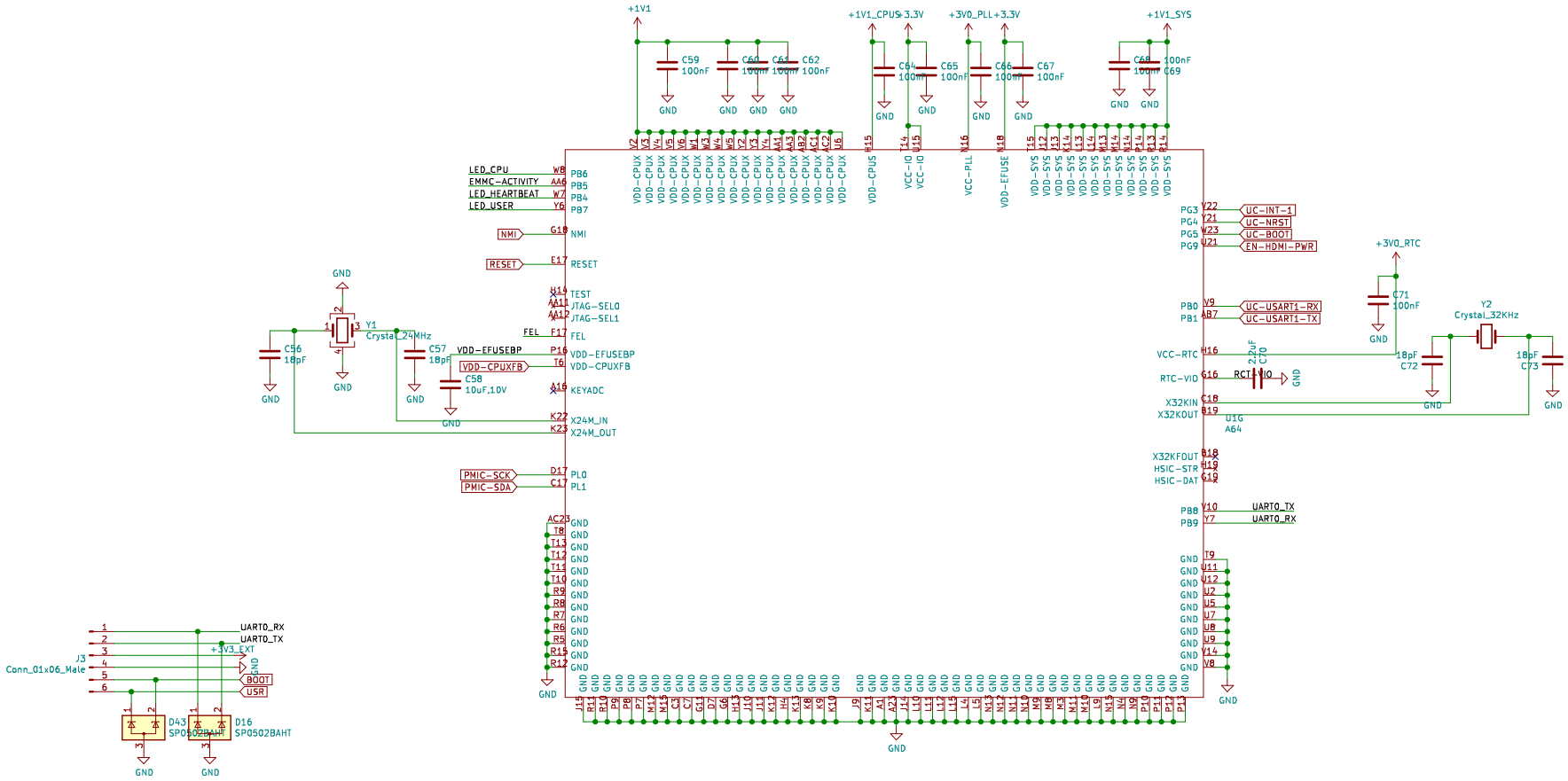
Intelligent Agent AS

Sheet: /Analog/
File: Analog.kicad_sch

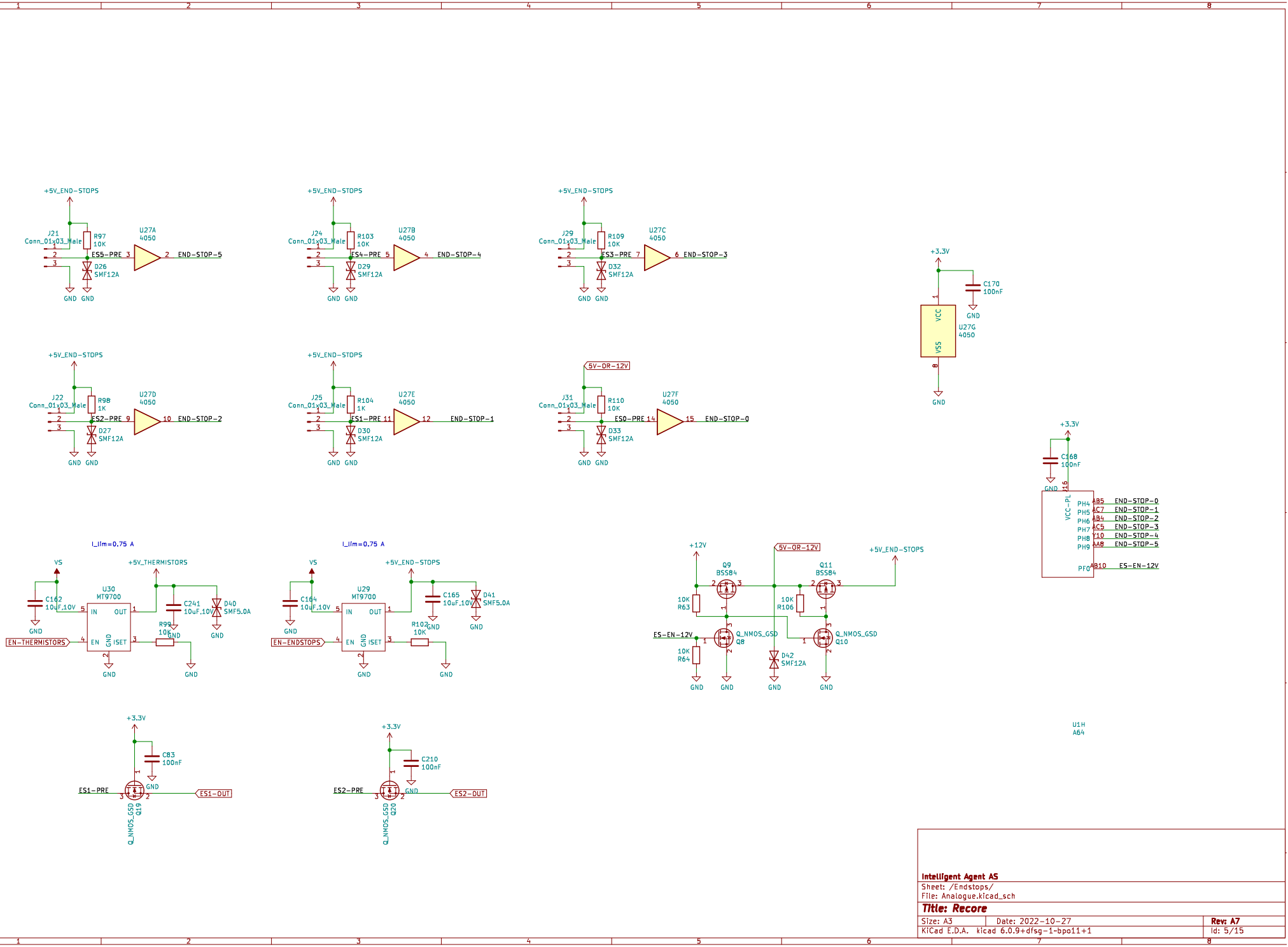
Title: Recore

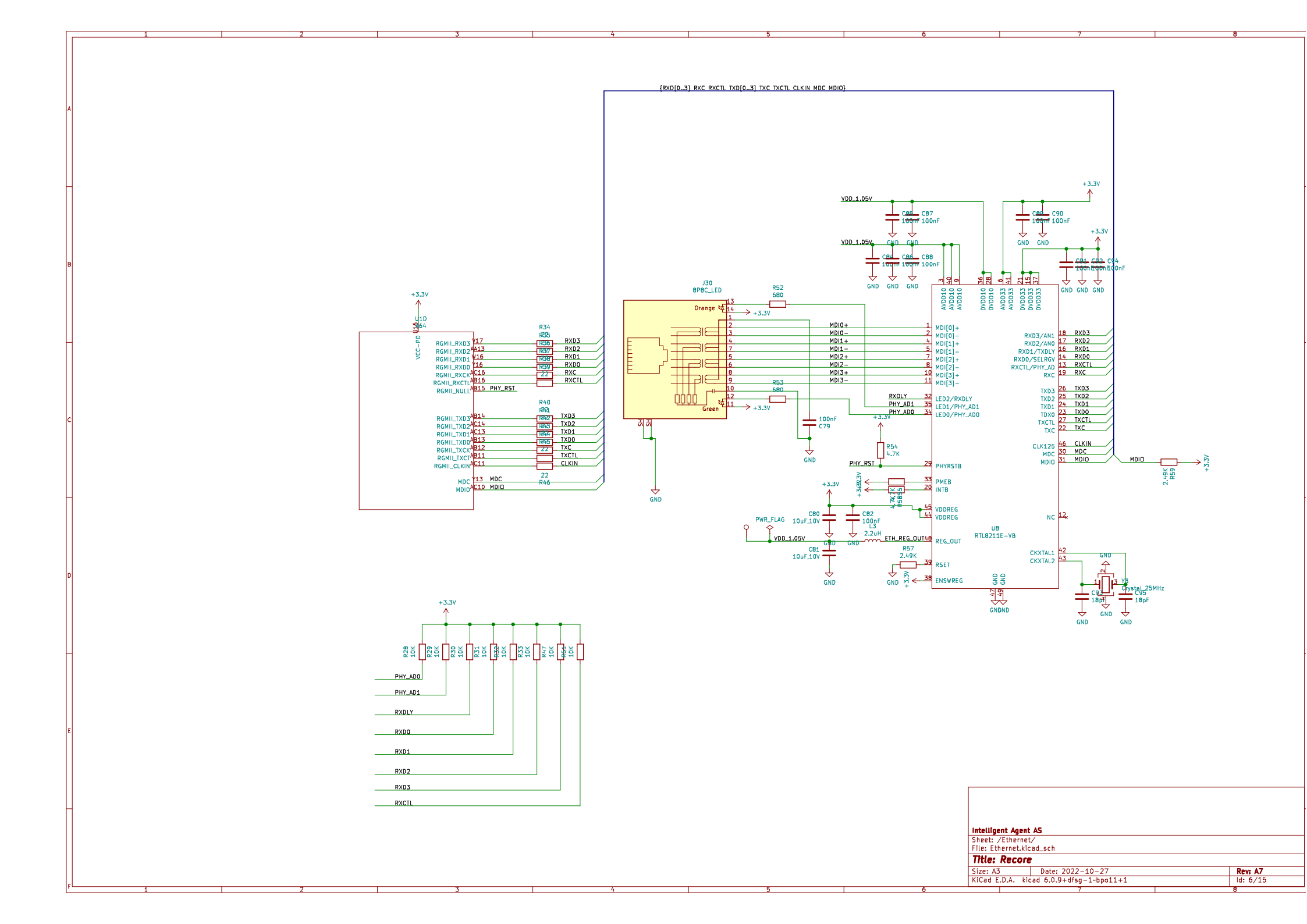
Size: A4	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1		Id: 2/15


[SDQ[0..31] SDQS1_N SDQS0_P SDQS0_N SDQS1_P SDQS1_N SDQS2_P SDQS2_N SDQS3_P SDQS3_N SDQM[0..3]]
[SA[0..14] BA[0..2] SCAS SRAS SWE SCK_N SCK_P SCKE0 SCS0 SODT0 SRST]
+1V5
GND
SVREF
U1A
A64
U2
U3
K4B1G1646D
C17 100nF
C35 100nF
C46 100nF
R1 240
Not using terination resistor
Intelligent Agent AS
Sheet: /DDR3/
File: ddr3.kicad_sch
Title: Recore
Size: A3
Date: 2022-10-27
Rev: A7
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1
Id: 3/15

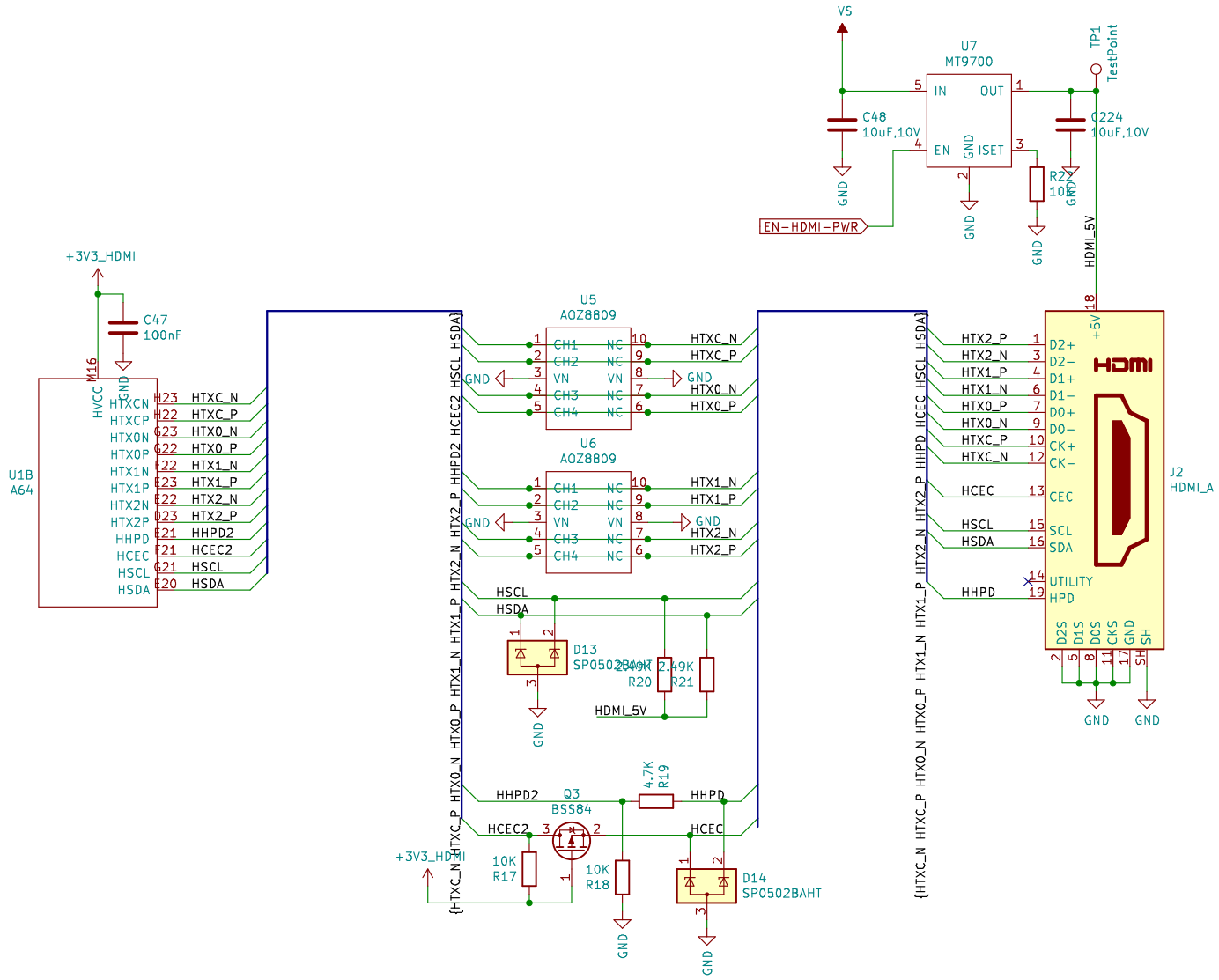


Intelligent Agent AS	
Sheet: /Div/	
File: Div.kicad_sch	
Title: Recore	
Size: A3	Date: 2022-10-27
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1	**Rev: A7**
	Id: 4/15

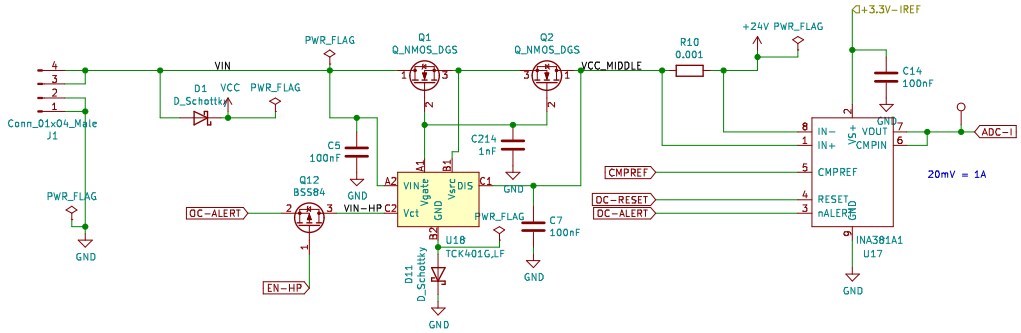

+5V_END-STOPS
J21
Conn_01x03_Male
R97
10K
U27A
4050
ES5-PRE
D26
SMF12A
END-STOP-5
GND
J24
R103
U27B
ES4-PRE
D29
END-STOP-4
J29
R109
U27C
ES3-PRE
D32
END-STOP-3
J22
R98
1K
U27D
ES2-PRE
D27
END-STOP-2
J25
R104
U27E
ES1-PRE
D30
END-STOP-1
5V-OR-12V
J31
R110
U27F
ES0-PRE
D33
END-STOP-0
+3.3V
C170
100nF
VCC
VSS
U27G
4050
C168
VCC_PL
PH4
PH5
PH6
PH7
PH8
PH9
PF0
AB5
AC7
AB4
AC5
Y10
AA8
AB10
ES-EN-12V
I_lim=0.75 A
VS
U30
MT9700
C162
10uF,10V
IN
OUT
EN
ISET
EN-THERMISTORS
+5V_THERMISTORS
C241
10uF,10V
D40
SMF5.0A
R99
10K
U29
C164
C165
D41
R102
EN-ENDSTOPS
+12V
Q9
BSS84
Q11
R63
R106
Q_NMOS_GSD
Q8
Q10
R64
D42
SMF12A
C83
100nF
Q19
C210
Q20
U1.H
A64
Intelligent Agent AS
Sheet: /Endstops/
File: Analogue.kicad_sch
Title: Recore
Size: A3
Date: 2022-10-27
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1
Rev: A7
Id: 5/15

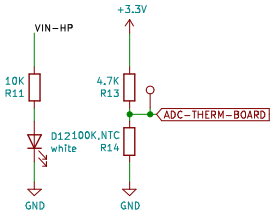


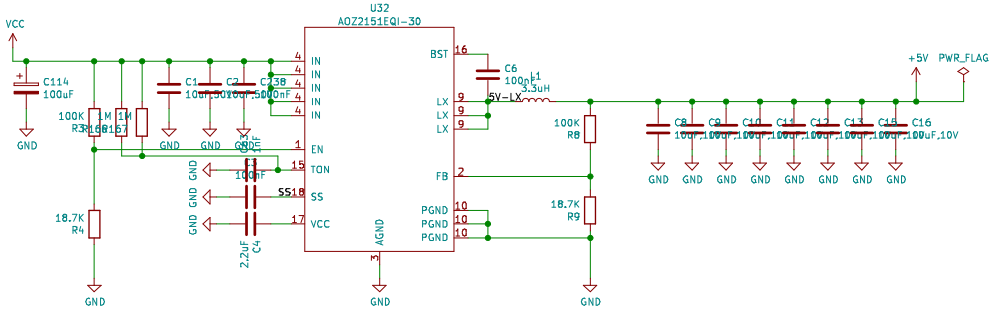
Intelligent Agent AS		
Sheet: /Ethernet/		
File: Ethernet.kicad_sch		
Title: Recore		
Size: A3	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1		Id: 6/15

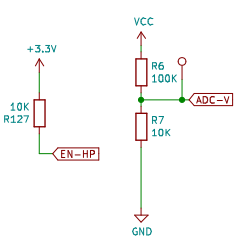


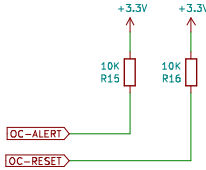
Intelligent Agent AS		
Sheet: /HDMI/		
File: HDMI.kicad_sch		
Title: Recore		
Size: A4	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1		Id: 7/15

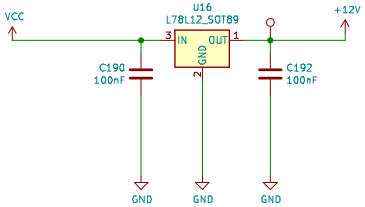












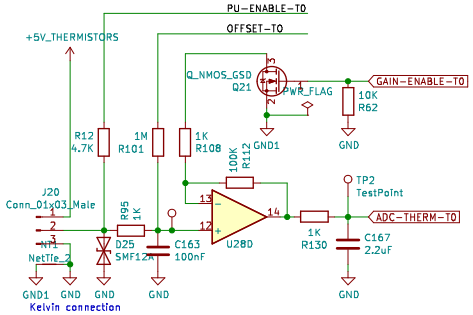
Intelligent Agent AS

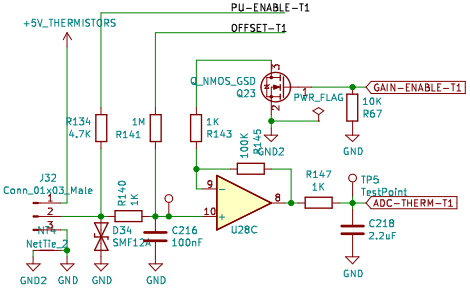
Sheet: /input-stage/

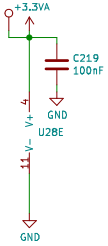
File: input-stage.kicad_sch

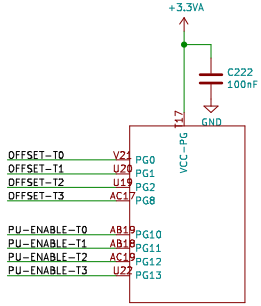
Title: Recore

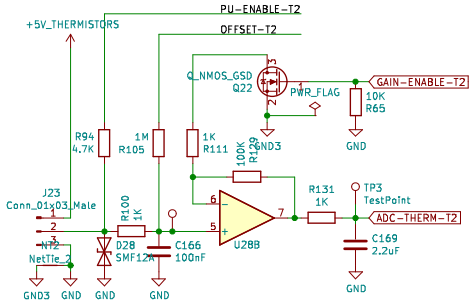
Size: A3	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1		Id: 8/15

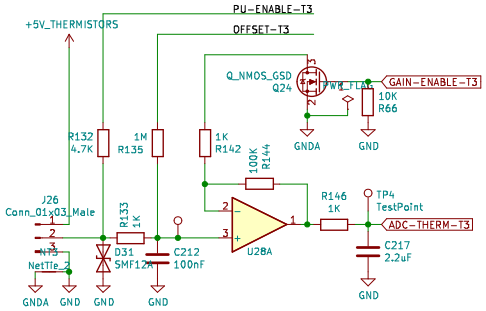












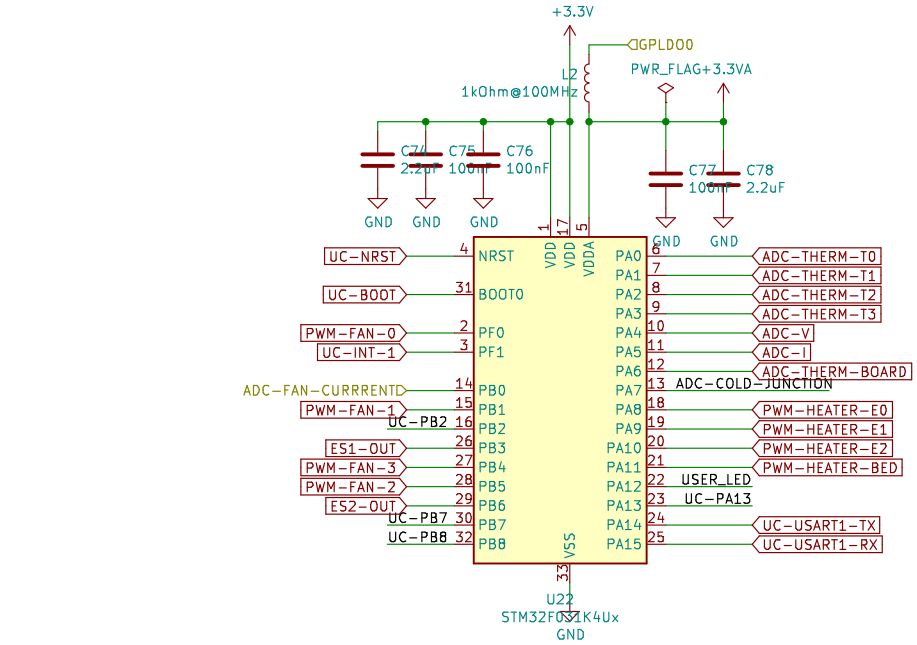
Intelligent Agent AS

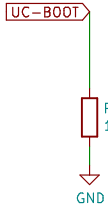
Sheet: /inputs/

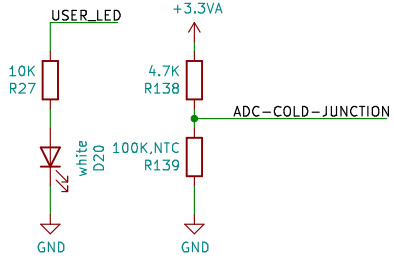
File: inputs.kicad_sch

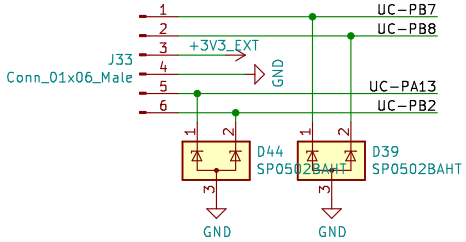
Title: Recore

Size: A3	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1		Id: 9/15

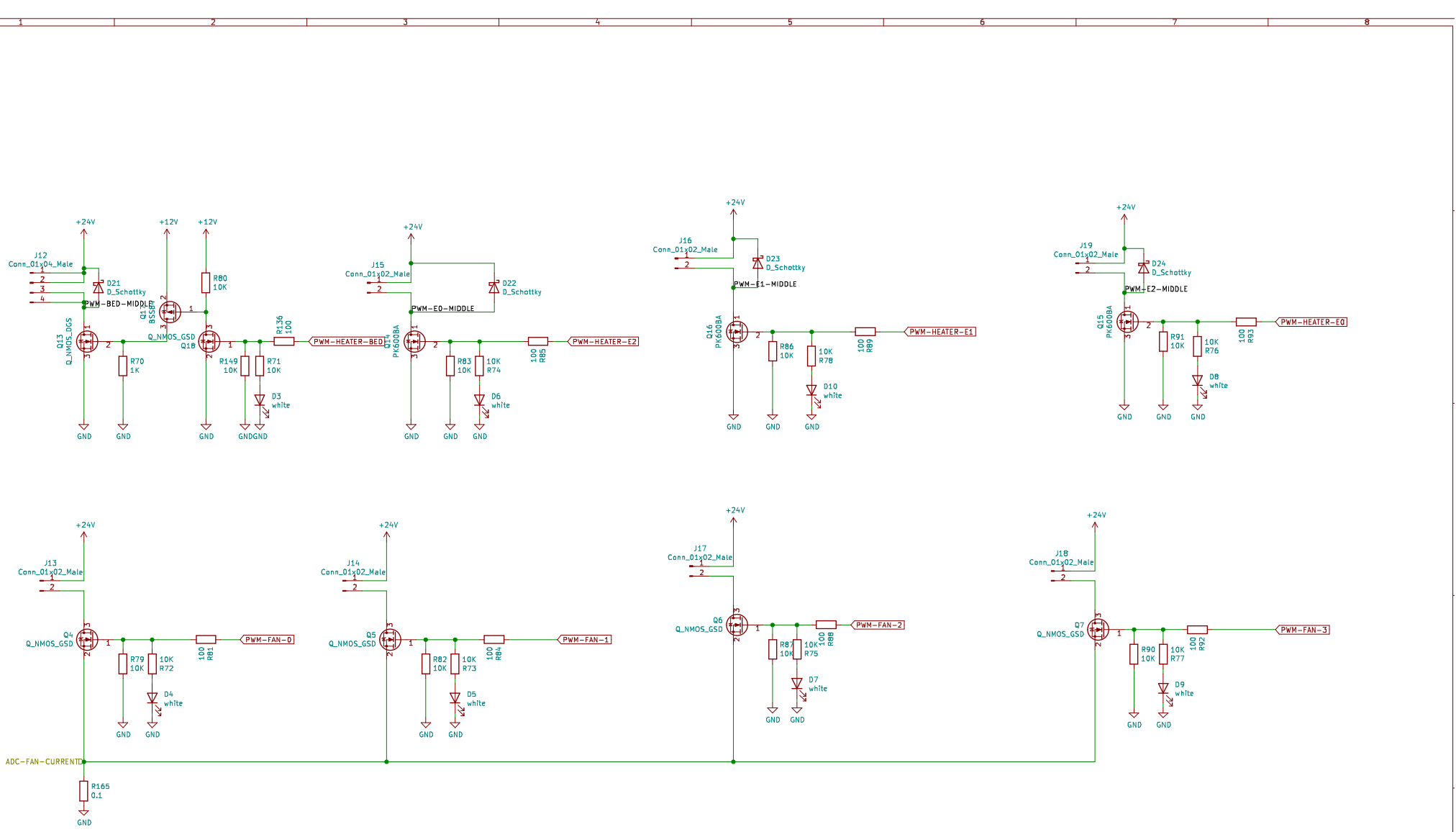




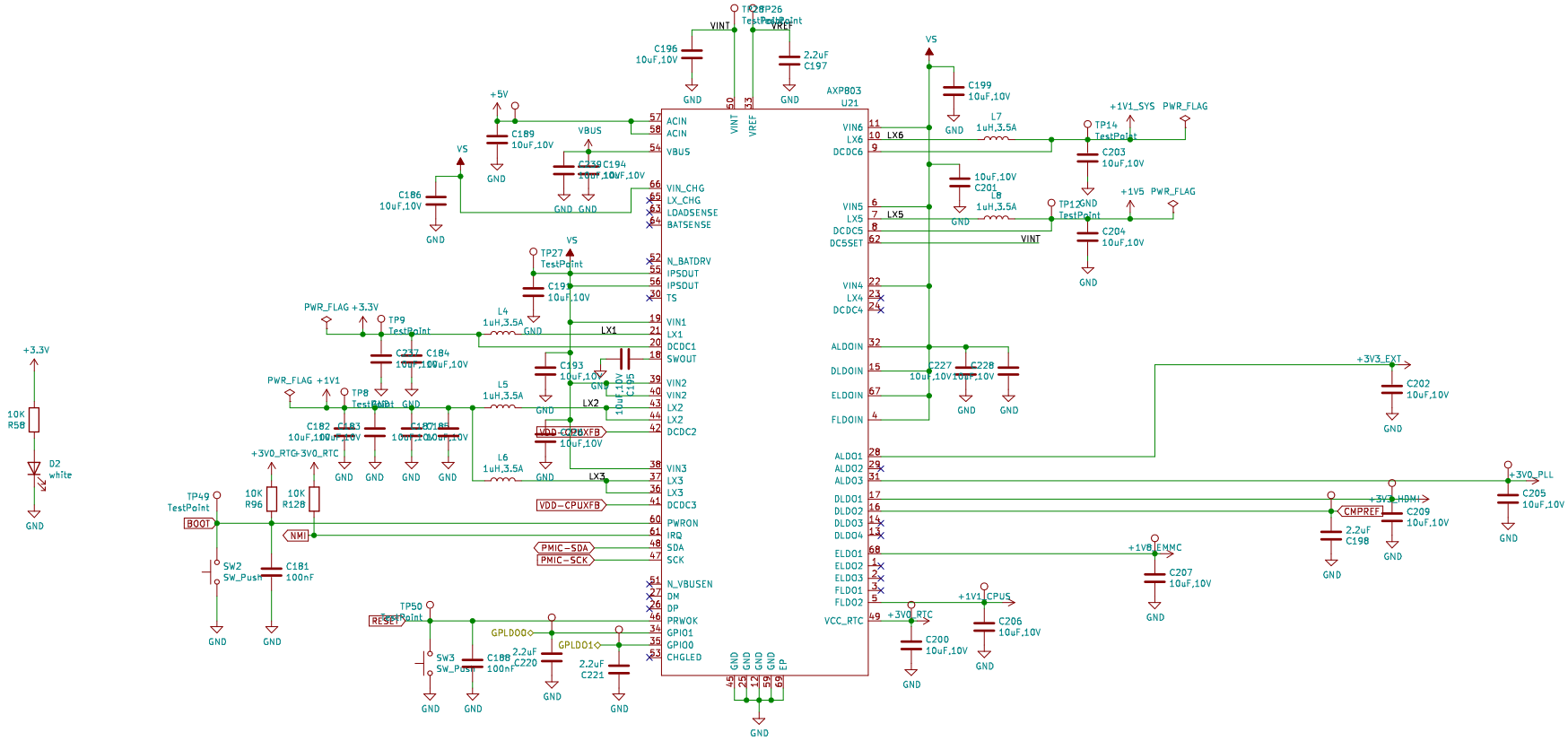




Intelligent Agent AS		
Sheet: /Microcontroller/		
File: Microcontroller.kicad_sch		
Title: Recore		
Size: A4	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1		Id: 10/15



Intelligent Agent AS		
Sheet: /Mosfets/		
File: Mosfets.kicad_sch		
Title: Recore		
Size: A3	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1		Id: 11/15



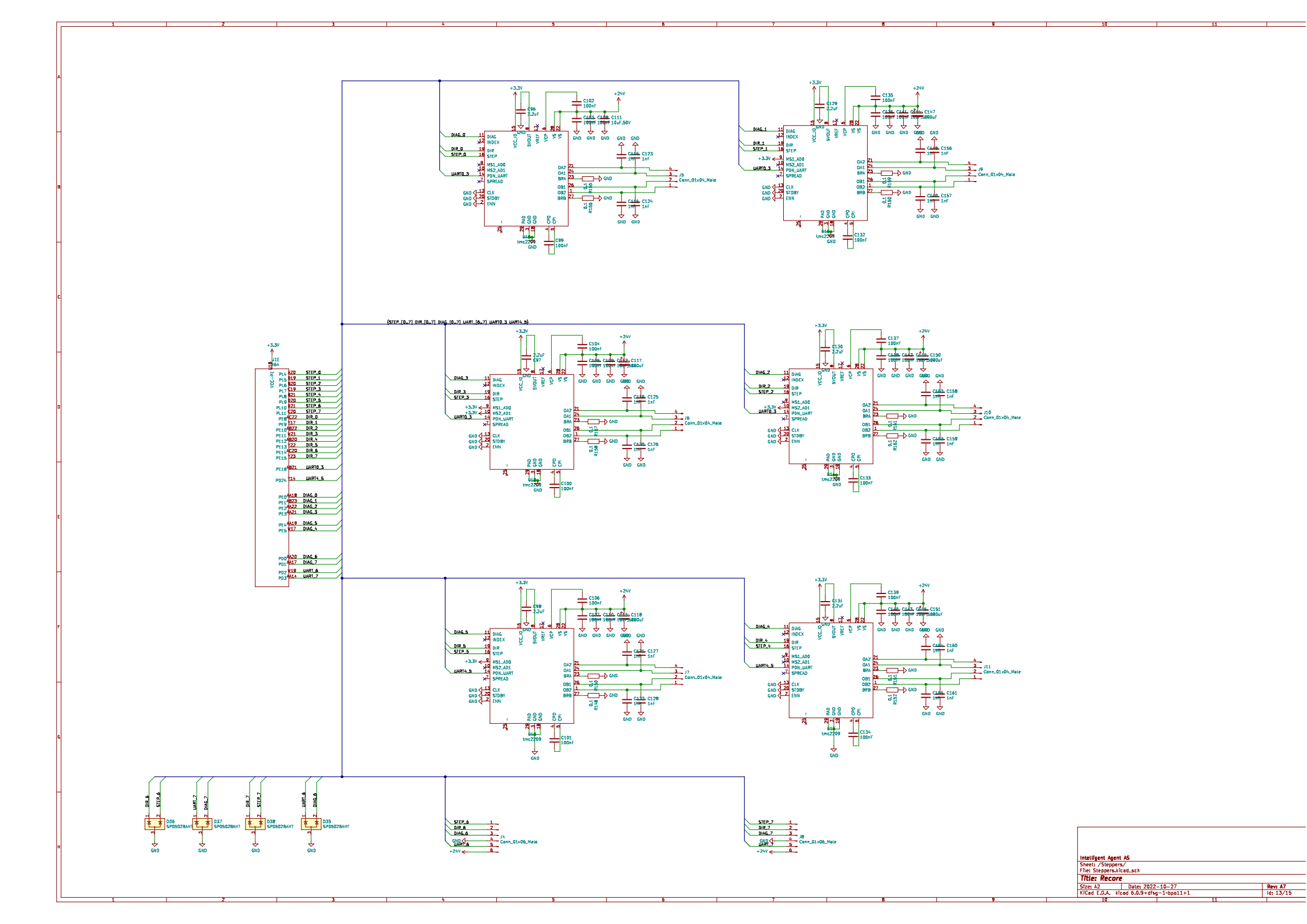
Intelligent Agent AS

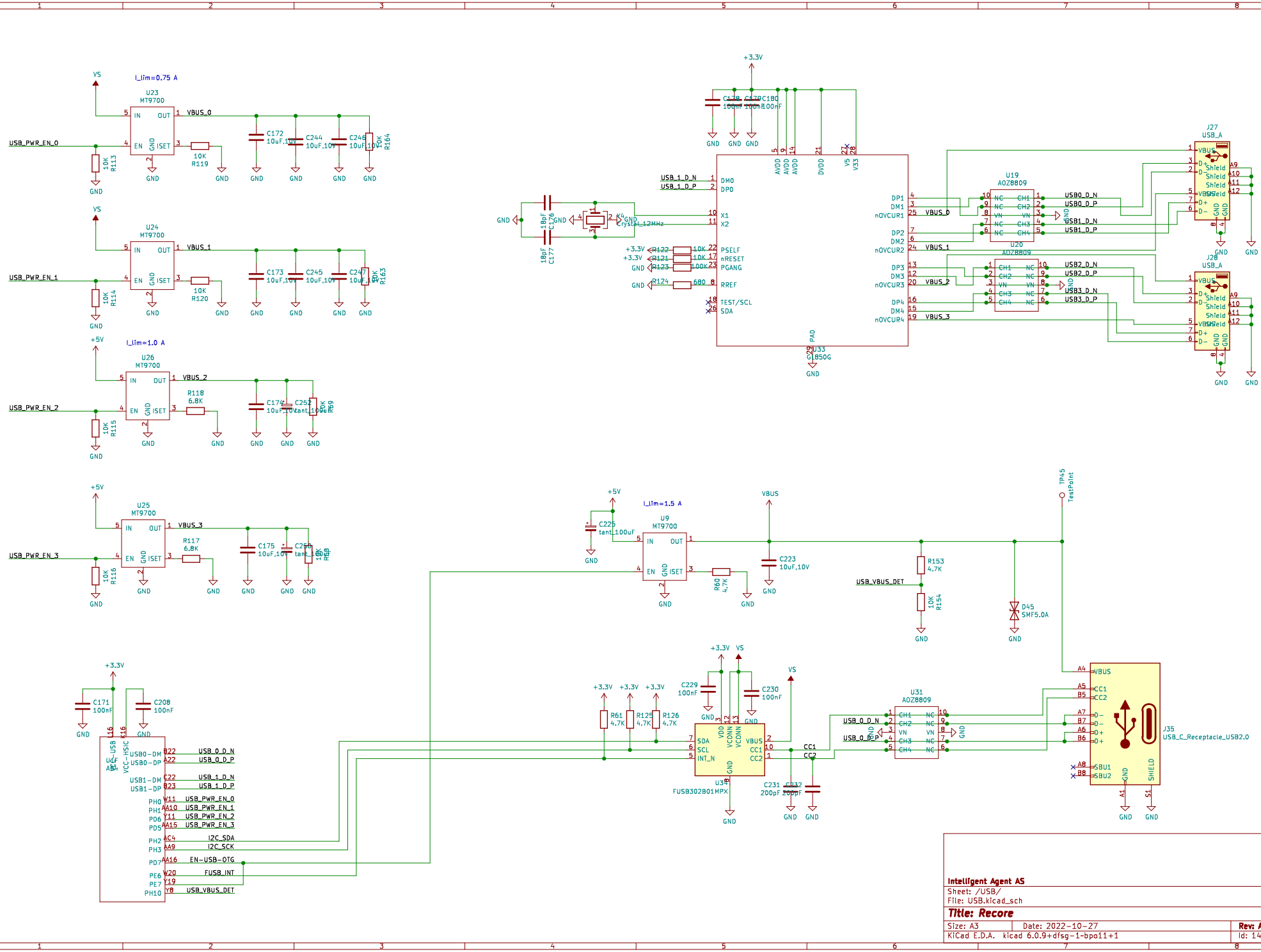
Sheet: /PMIC/

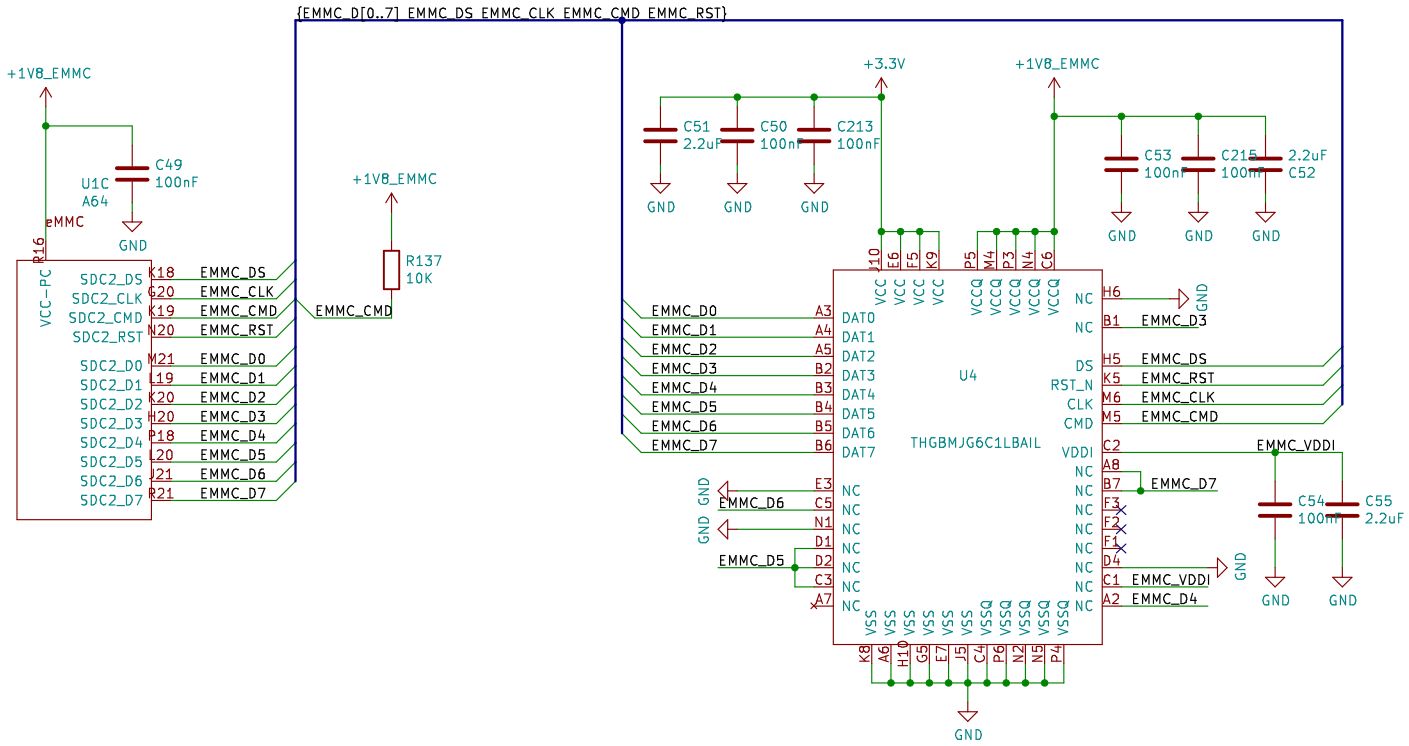
File: PMIC.kicad_sch

Title: Recore

Size: A3	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1		Id: 12/15


{STEP [0..7] DIR [0..7] DIAG [0..7] UART [0..7] UART0_3 UART4_5}
+3.3V
+24V
GND
tmc2209
Conn_01x04_Male
Conn_01x06_Male
SP0502BAHT
Intelligent Agent AS
Sheet: /Steppers/
File: Steppers.kicad_sch
Title: Recore
Size: A2
Date: 2022-10-27
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1
Rev: A7
Id: 13/15


I_lim=0.75 A
U23
MT9700
VBUS_0
USB_PWR_EN_0
U24
MT9700
VBUS_1
USB_PWR_EN_1
I_lim=1.0 A
U26
MT9700
VBUS_2
USB_PWR_EN_2
U25
MT9700
VBUS_3
USB_PWR_EN_3
I_lim=1.5 A
U9
MT9700
U19
AOZ8809
U20
AOZ8809
U31
AOZ8809
U33
CL850G
J27
USB_A
J28
USB_A
J35
USB_C_Receptacle_USB2.0
U34
FUSB302B01MPX
Crystal_12MHz
USB_1_D_N
USB_1_D_P
USB_VBUS_DET
D45
SMF5.0A
TP45
TestPoint
I2C_SDA
I2C_SCK
EN-USB-OTG
FUSB_INT
USB_VBUS_DET
Intelligent Agent AS
Sheet: /USB/
File: USB.kicad_sch
Title: Recore
Size: A3
Date: 2022-10-27
Rev: A7
KiCad E.D.A. kicad 6.0.9+dfsg-1-bpo11+1
Id: 14/15



Intelligent Agent AS		
Sheet: /eMMC/		
File: eMMC.kicad_sch		
Title: Recore		
Size: A4	Date: 2022-10-27	**Rev: A7**
KiCad E.D.A. kicad 6.0.9+dfsg-1~bpo11+1		Id: 15/15