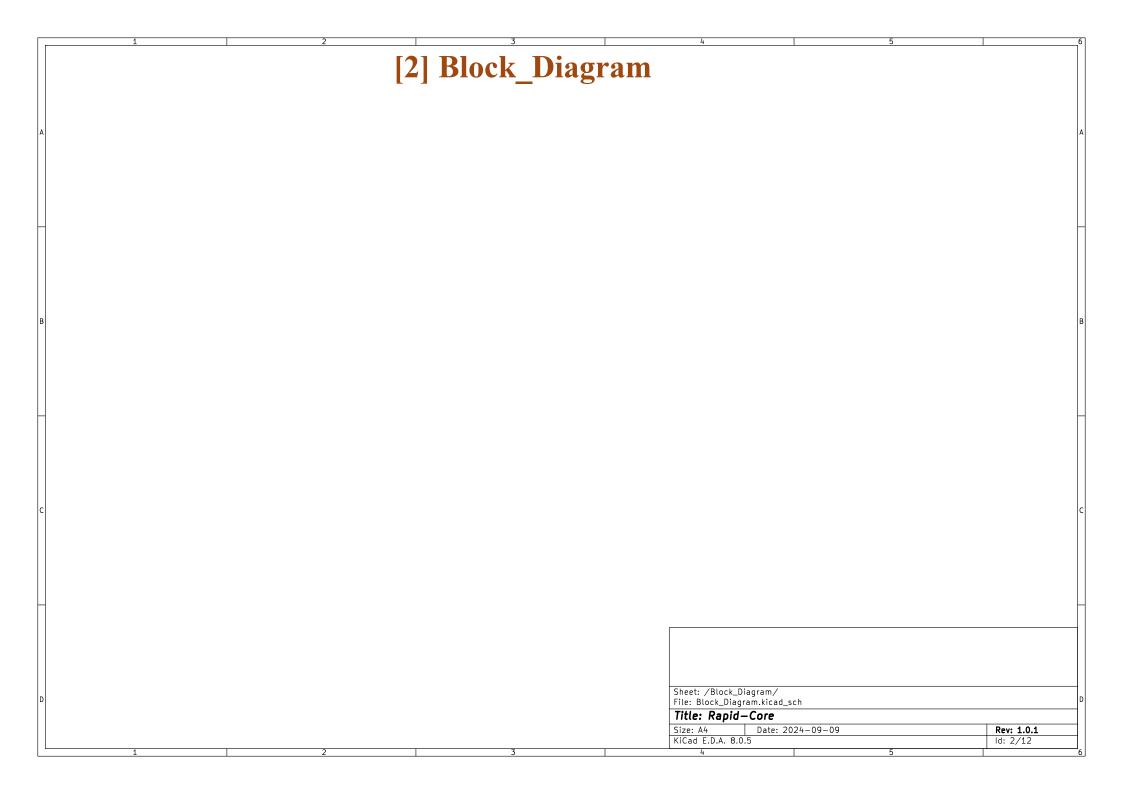
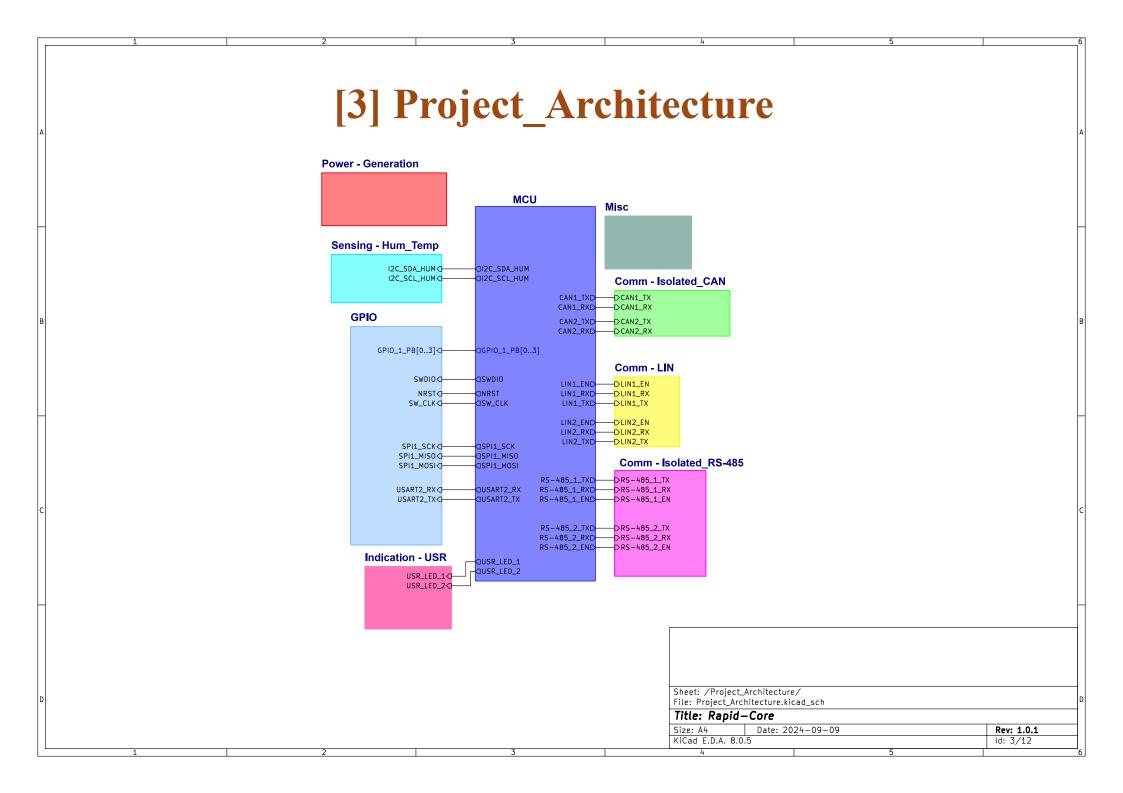
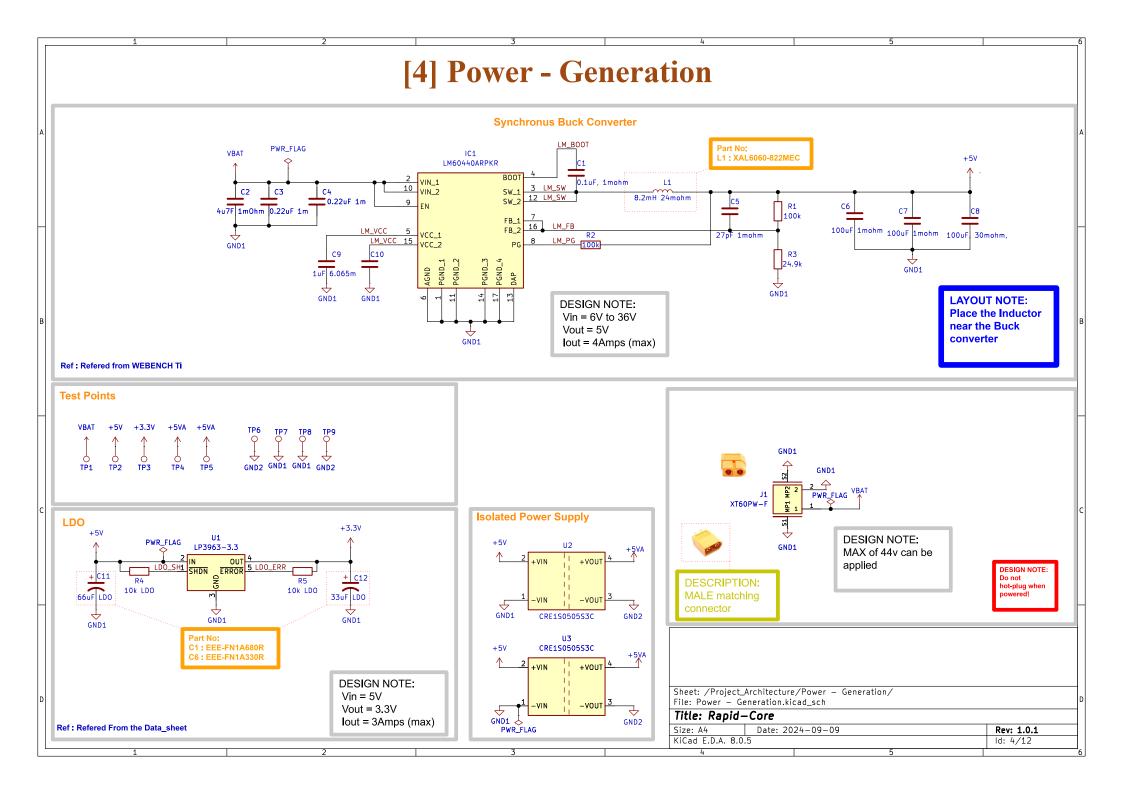
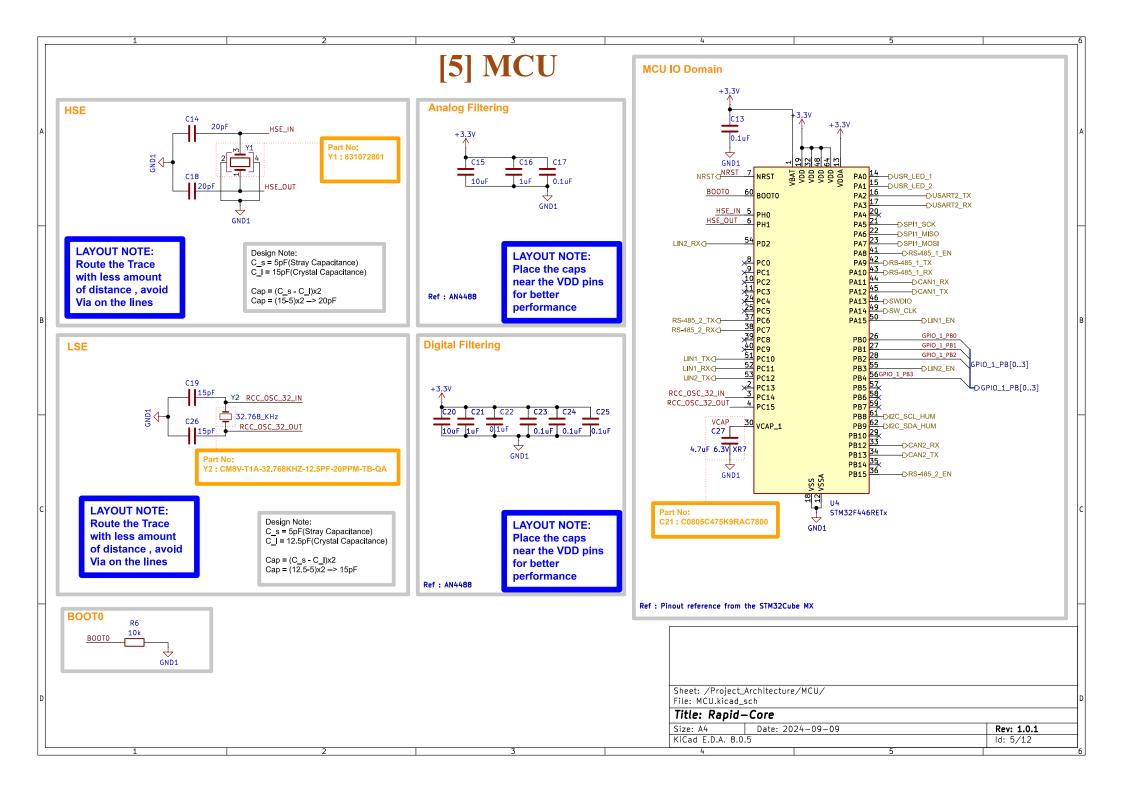
pid-CoreX	DATE: 09/09/2024	4 5
gner : AR Lipson	REV: 1.0.0	Top Side
x Index		
er Page Indication - U	SR	Top Side image of the PCB
k_Diagram Misc - Fid,Ho	les	
er - Generation		
		Bottom Side
ing - Hum_Temp		
Comm - Isolated_CAN		Bottom Side image of the PCB
	•••••	
m - Isolated_RS-485		
N NOTE: e text for tional design DESCRIPTION: Description about How it can be used. LAYOUT NOTE: Example text for critical layout guidelines.	Part No: Put part no of the component	Block_Dlagram Project_Architecture
		project architecture , block diagram , additional pages need ot be mentioned
		Sheet: / File: Rapid_Core-RCP.kicad_sch
		Title: Rapid-Core Size: A4 Date: 2024-09-09 Rev: 1.0.1 KiCad E.D.A. 8.0.5 Id: 1/12

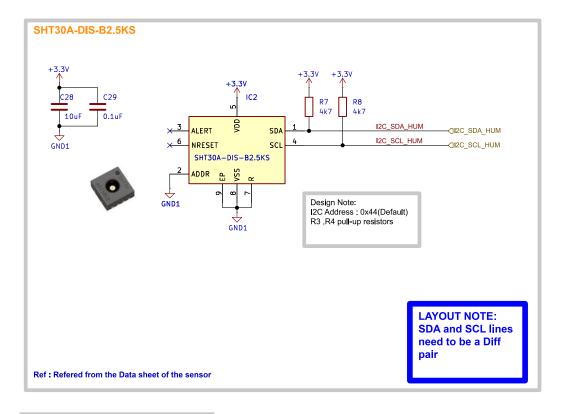








[6] Sensing - Hum_Temp



Test Points

O_IP10 __I2C_SDA_HUM
O_TP11 __I2C_SCL_HUM

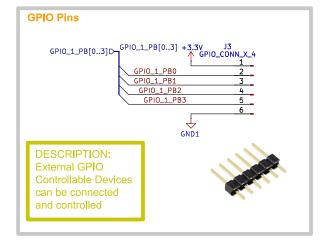
Sheet: /Project_Architecture/Sensing — Hum_Temp/ File: Sensing — Hum_Temp.kicad_sch

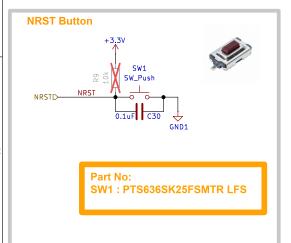
Title: Rapid—Core

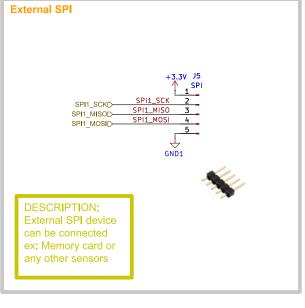
 Size: A4
 Date: 2024-09-09
 Rev: 1.0.1

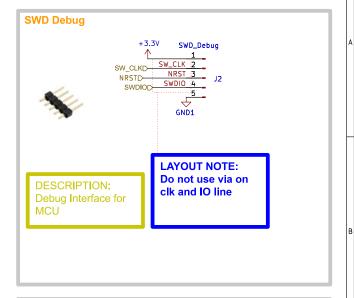
 KiCad E.D.A. 8.0.5
 Id: 6/12

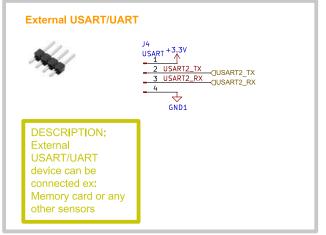
[7] **GPIO**











Sheet: /Project_Architecture/GPIO/ File: General.kicad_sch

Title: Rapid-Core

 Size: A4
 Date: 2024-09-09
 Rev: 1.0.1

 KiCad E.D.A. 8.0.5
 Id: 7/12

[8] Comm - Isolated_CAN Isolated CAN - 1 ₹ GND2 R11 59 CAN_H_IN-1 SO1042BQDWVRQ1 4700pF CAN_L_IN-1 GND2 D1,D2: CDSOT23-SM712 Isolated CAN - 2 GND2 +3.3V CAN_H_IN-2 CAN_H-2 R17 59 (CAN_2_Cap CAN2 TXD CAN2_TX R18 ISO1042BQDWVRQ1 RXD CAN_L CAN2_RX CAN2_RX R19 GND1 GND1 R20 59 4700pF GND2 CAN_L_IN-2 **Test Points CAN - 1** TP12 CAN1_TX TP13 CAN1_RX TP14 CAN_H_IN-1 Sheet: /Project_Architecture/Comm — Isolated_CAN/ File: Comm — Isolated_CAN.kicad_sch CAN_L_IN-1 Title: Rapid-Core Size: A4 Date: 2024-09-09 Rev: 1.0.1 KiCad E.D.A. 8.0.5 ld: 8/12

Test Points CAN - 2

[9] Comm - LIN

Test Points LIN - 1

- TP20 LIN1_RX O_TP21_LIN1_TX
- O TP22 LIN1_EN O TP23 LIN1

LIN - 1 D3 🗸 Part No: D4: 1N4448WSF-7 TLIN1039DDFRQ1 R22 R23 10K LIN1_RXD LIN1_RX
LIN1_TXD LIN1_TX ₩ GND1 ↓ GND1

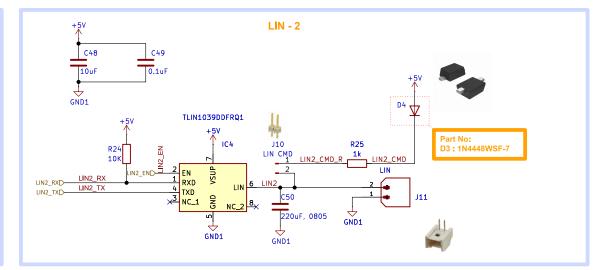
DESIGN NOTE: 1. If J9 is closed the

tranceiver acts a Commander.

2. If J9 is open the transceiver acts a Responder.

Test Points LIN - 2

O_TP24 LIN2_RX TP25 LIN2_TX TP26 LIN2_EN O TP27 LIN2



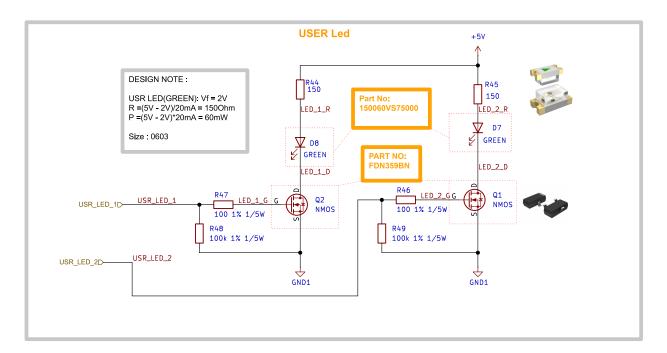
Sheet: /Project_Architecture/Comm - LIN/ File: Comm - LIN.kicad_sch

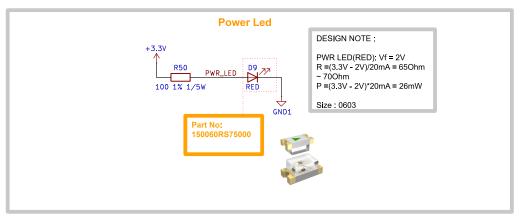
Title: Rapid-Core

Size: A4 Date: 2024-09-09 Rev: 1.0.1 KiCad E.D.A. 8.0.5 ld: 9/12

[10] Comm - Isolated_RS-485 Isolated RS_485 - 1 ↑+3.3V 1+5VA ⊣ ISO3082DWR 🛱 R28 59 C57 R31 4700pF ↓ GND2 RS-485_A-IN-1 59 GND2 Isolated RS 485 - 2 +3.3V RS-485 2 10k , RSR35 RS-485_2_TXD___**RS-485_2_TX** 59 C64 RS-485_2_Cap | | R40 4700pF GND2 RS-485_2_EN_R-2 GND2 0 RS J 10k , RS Test Points RS 485 - 2 Test Points RS 485 - 1 ______RS-485_2_TX TP28 RS-485_1_TX TP34_RS-485_2_RX TP29_RS-485_1_RX TP35_RS-485_2_EN TP30 RS-485_1_EN Sheet: /Project_Architecture/Comm - Isolated_RS-485/ File: Comm - Isolated_RS-485.kicad_sch TP31_RS-485_B_IN-1 Title: Rapid-Core TP32 RS-485_A-IN-1 ______RS-485_A_IN-2 Size: A4 Date: 2024-09-09 Rev: 1.0.1 KiCad E.D.A. 8.0.5 ld: 10/12

[11] Indication - USR





Sheet: /Project_Architecture/Indication - USR/ File: Indication - USR.kicad_sch

Title: Rapid-Core

 Size: A4
 Date: 2024-09-09
 Rev: 1.0.1

 KiCad E.D.A. 8.0.5
 Id: 11/12

