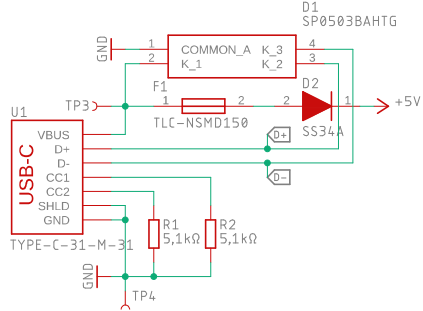
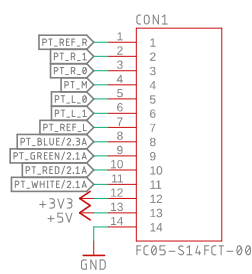


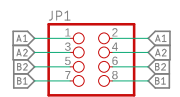
## USB-C



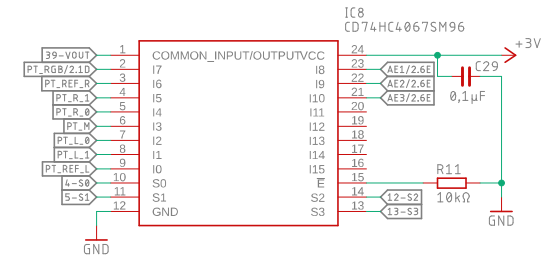
## Light sensor bar port



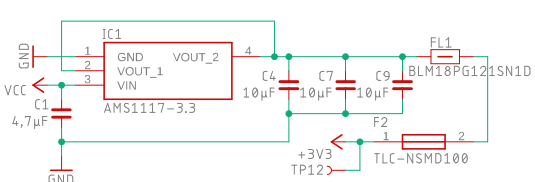
## Motor driver



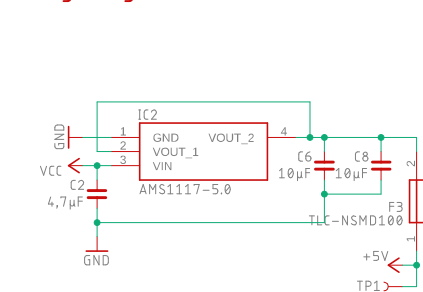
## ADC multiplexer



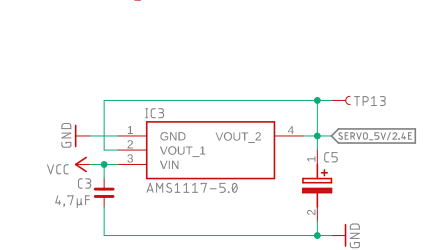
## Voltage regulator



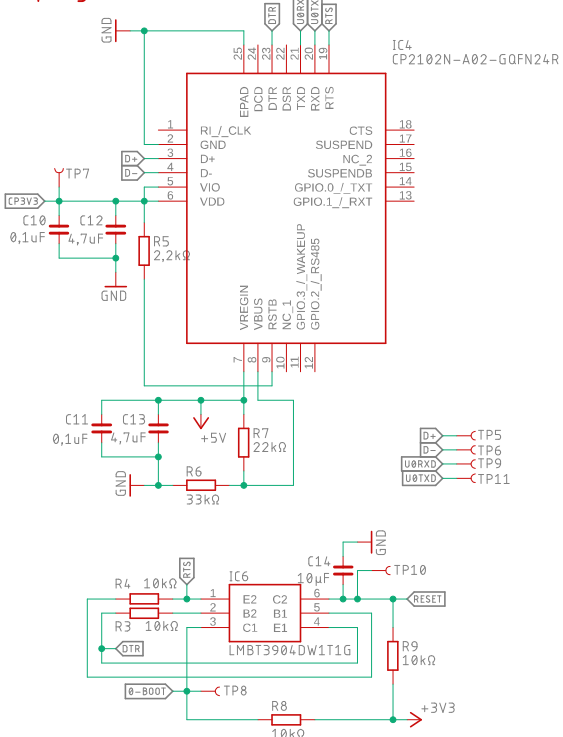
## Voltage regulator



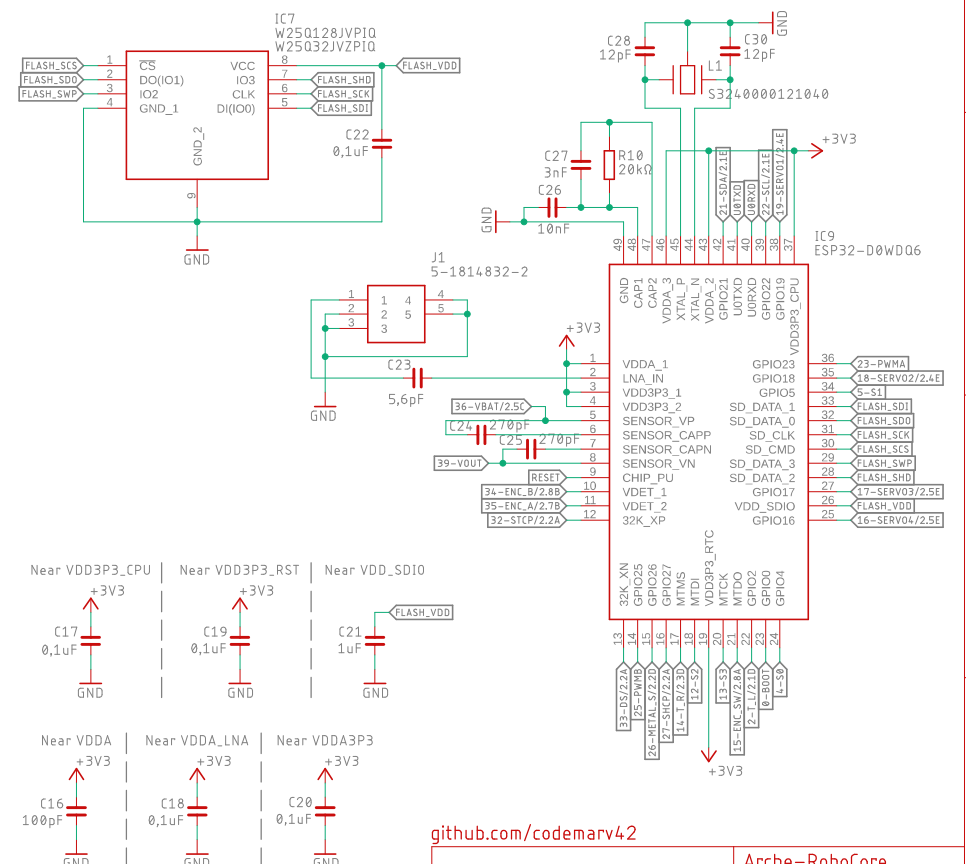
## Servo voltage



## USB programmer



## Espressif ESP32



Special thanks to: Karolina Schnitter, Nelly Nötzoldt, Niklas Zock, Quang Nguyen, Oskar Pietzsch, Valentin Schaar, Vincent von Schmidt, Lukas Naefe

[github.com/codemarv42](https://github.com/codemarv42)



Arche-RoboCore
Marvin Ramm
12.05.2023 15:37
Sheet: 1/2
REV: V3

**Shift register**

IC10: 74HC595PW,118. IC12: 74HC595PW,118. IC13: 74HC595PW,118. IC15: PE12R-4120F-S0012.

**RGB LEDs**

RGB1: CLV1A-FKB. RGB2: CLV1A-FKB.

**Rotary encoder**

IC15: PE12R-4120F-S0012.

**Motor Voltage**

IC11: MP1584EN-LF-Z. D3: SS34A. L2: LQH5BPB100MT0L. FL2: BLM18PG121SN10.

**Battery input**

IC11: MP1584EN-LF-Z. D3: SS34A. L2: LQH5BPB100MT0L. FL2: BLM18PG121SN10.

**128x64 I2C display**

DSP1: 2864KSWE\_128X64I2C.

**Gyro sensor**

IC14: MPU-6050.

**External pins**

JP1: 2-T.L/1.80. JP2: 2-T.L/1.80. JP3: 2-T.L/1.80. JP4: 2-T.L/1.80. JP5: 2-T.L/1.80. JP6: 2-T.L/1.80. JP7: 2-T.L/1.80. JP8: 2-T.L/1.80. JP9: 2-T.L/1.80. JP10: 2-T.L/1.80. JP11: 2-T.L/1.80. JP12: 2-T.L/1.80. JP13: 2-T.L/1.80. JP14: 2-T.L/1.80. JP15: 2-T.L/1.80. JP16: 2-T.L/1.80. JP17: 2-T.L/1.80.

**Special thanks to:** Karolina Schnitter, Nelly Nötzoldt, Niklas Zock, Quang Nguyen, Oskar Pietzsch, Valentin Schaar, Vincent von Schmidt, Lukas Naefe

**Arche-RoboCore**

**IMHSD**

**Marvin Ramm**

**12.05.2023 15:37**

**Sheet: 2/2**

**REV: v3**

[github.com/codemarv42](https://github.com/codemarv42)

**Shift register**

IC10: 74HC595PW,118. IC12: 74HC595PW,118. IC13: 74HC595PW,118. Components: AIN2/1.4B, BIN1/1.4B, BIN2/1.4B, STBY/1.4B, PT\_WHITE/1.3A, PT\_RED/1.3A, PT\_GREEN/1.3A, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100. Components: LED\_L\_RED, LED\_L\_GREEN, LED\_L\_BLUE, LED\_R\_RED, LED\_R\_GREEN, LED\_R\_BLUE, XSH1, XSH2, XSH3, XSH4, XSH5, XSH6, XSH7, XSH8, XSH9, XSH10, XSH11, XSH12, XSH13, XSH14, XSH15, XSH16, XSH17, XSH18, XSH19, XSH20, XSH21, XSH22, XSH23, XSH24, XSH25, XSH26, XSH27, XSH28, XSH29, XSH30, XSH31, XSH32, XSH33, XSH34, XSH35, XSH36, XSH37, XSH38, XSH39, XSH40, XSH41, XSH42, XSH43, XSH44, XSH45, XSH46, XSH47, XSH48, XSH49, XSH50, XSH51, XSH52, XSH53, XSH54, XSH55, XSH56, XSH57, XSH58, XSH59, XSH60, XSH61, XSH62, XSH63, XSH64, XSH65, XSH66, XSH67, XSH68, XSH69, XSH70, XSH71, XSH72, XSH73, XSH74, XSH75, XSH76, XSH77, XSH78, XSH79, XSH80, XSH81, XSH82, XSH83, XSH84, XSH85, XSH86, XSH87, XSH88, XSH89, XSH90, XSH91, XSH92, XSH93, XSH94, XSH95, XSH96, XSH97, XSH98, XSH99, XSH100. Components: C33, C37, C41. Components: +3V3, GND.

**RGB LEDs**

RGB1: CLV1A-FKB. RGB2: CLV1A-FKB. Components: R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: LED\_L\_GREEN, LED\_L\_BLUE, LED\_R\_GREEN, LED\_R\_BLUE. Components: +3V3, GND.

**Rotary encoder**

IC15: PE12R-4120F-S0012. Components: R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, MH10, MH11, MH12, MH13, MH14, MH15, MH16, MH17, MH18, MH19, MH20, MH21, MH22, MH23, MH24, MH25, MH26, MH27, MH28, MH29, MH30, MH31, MH32, MH33, MH34, MH35, MH36, MH37, MH38, MH39, MH40, MH41, MH42, MH43, MH44, MH45, MH46, MH47, MH48, MH49, MH50, MH51, MH52, MH53, MH54, MH55, MH56, MH57, MH58, MH59, MH60, MH61, MH62, MH63, MH64, MH65, MH66, MH67, MH68, MH69, MH70, MH71, MH72, MH73, MH74, MH75, MH76, MH77, MH78, MH79, MH80, MH81, MH82, MH83, MH84, MH85, MH86, MH87, MH88, MH89, MH90, MH91, MH92, MH93, MH94, MH95, MH96, MH97, MH98, MH99, MH100. Components: +3V3, GND.

**Motor Voltage**

IC11: MP1584EN-LF-Z. Components: R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C31, C33, C35, C37, C39, C41, C43, C45, C47, C49, C51, C53, C55, C57, C59, C61, C63, C65, C67, C69, C71, C73, C75, C77, C79, C81, C83, C85, C87, C89, C91, C93, C95, C97, C99, C101. Components: VIN, EN, SW, COMP, FB, FREQ, GND, EP. Components: +3V3, GND.

**Battery input**

IC12: A03407A. Components: R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: XT\_30, A03407A, SS34A, SW1, XKB7070-Z. Components: +3V3, GND.

**128x64 px I2C display**

DSP1: 2864KSWE\_128X64I2C. Components: R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100. Components: +3V3, GND.

**Gyro sensor**

IC14: MPU-6050. Components: R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100. Components: +3V3, GND.

**External pins**

JP1: 2-T/L/1.80. JP2: 2-T/L/1.80. JP3: 2-T/L/1.80. JP4: 2-T/L/1.80. JP5: 2-T/L/1.80. JP6: 2-T/L/1.80. JP7: 2-T/L/1.80. JP8: 2-T/L/1.80. JP9: 2-T/L/1.80. JP10: 2-T/L/1.80. JP11: 2-T/L/1.80. JP12: 2-T/L/1.80. JP13: 2-T/L/1.80. JP14: 2-T/L/1.80. JP15: 2-T/L/1.80. JP16: 2-T/L/1.80. JP17: 2-T/L/1.80. JP18: 2-T/L/1.80. JP19: 2-T/L/1.80. JP20: 2-T/L/1.80. JP21: 2-T/L/1.80. JP22: 2-T/L/1.80. JP23: 2-T/L/1.80. JP24: 2-T/L/1.80. JP25: 2-T/L/1.80. JP26: 2-T/L/1.80. JP27: 2-T/L/1.80. JP28: 2-T/L/1.80. JP29: 2-T/L/1.80. JP30: 2-T/L/1.80. JP31: 2-T/L/1.80. JP32: 2-T/L/1.80. JP33: 2-T/L/1.80. JP34: 2-T/L/1.80. JP35: 2-T/L/1.80. JP36: 2-T/L/1.80. JP37: 2-T/L/1.80. JP38: 2-T/L/1.80. JP39: 2-T/L/1.80. JP40: 2-T/L/1.80. JP41: 2-T/L/1.80. JP42: 2-T/L/1.80. JP43: 2-T/L/1.80. JP44: 2-T/L/1

**Shift register**

IC10: 74HC595PW,118. IC12: 74HC595PW,118. IC13: 74HC595PW,118. Components: AIN2/1.4B, BIN1/1.4B, BIN2/1.4B, STBY/1.4B, PT\_WHITE/1.3A, PT\_RED/1.3A, PT\_GREEN/1.3A, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52, Q53, Q54, Q55, Q56, Q57, Q58, Q59, Q60, Q61, Q62, Q63, Q64, Q65, Q66, Q67, Q68, Q69, Q70, Q71, Q72, Q73, Q74, Q75, Q76, Q77, Q78, Q79, Q80, Q81, Q82, Q83, Q84, Q85, Q86, Q87, Q88, Q89, Q90, Q91, Q92, Q93, Q94, Q95, Q96, Q97, Q98, Q99, Q100. Components: LED\_L\_RED, LED\_L\_GREEN, LED\_L\_BLUE, LED\_R\_RED, LED\_R\_GREEN, LED\_R\_BLUE, XSH1, XSH2, XSH3, XSH4, XSH5, XSH6, XSH7, XSH8, XSH9, XSH10, XSH11, XSH12, XSH13, XSH14, XSH15, XSH16, XSH17, XSH18, XSH19, XSH20, XSH21, XSH22, XSH23, XSH24, XSH25, XSH26, XSH27, XSH28, XSH29, XSH30, XSH31, XSH32, XSH33, XSH34, XSH35, XSH36, XSH37, XSH38, XSH39, XSH40, XSH41, XSH42, XSH43, XSH44, XSH45, XSH46, XSH47, XSH48, XSH49, XSH50, XSH51, XSH52, XSH53, XSH54, XSH55, XSH56, XSH57, XSH58, XSH59, XSH60, XSH61, XSH62, XSH63, XSH64, XSH65, XSH66, XSH67, XSH68, XSH69, XSH70, XSH71, XSH72, XSH73, XSH74, XSH75, XSH76, XSH77, XSH78, XSH79, XSH80, XSH81, XSH82, XSH83, XSH84, XSH85, XSH86, XSH87, XSH88, XSH89, XSH90, XSH91, XSH92, XSH93, XSH94, XSH95, XSH96, XSH97, XSH98, XSH99, XSH100. Components: C33, C37, C41. Components: +3V3, GND.

**RGB LEDs**

RGB1: CLV1A-FKB. RGB2: CLV1A-FKB. Components: R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: LED\_L\_GREEN, LED\_L\_BLUE, LED\_R\_GREEN, LED\_R\_BLUE. Components: +3V3, GND.

**Rotary encoder**

IC15: PE12R-4120F-S0012. Components: R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, MH10, MH11, MH12, MH13, MH14, MH15, MH16, MH17, MH18, MH19, MH20, MH21, MH22, MH23, MH24, MH25, MH26, MH27, MH28, MH29, MH30, MH31, MH32, MH33, MH34, MH35, MH36, MH37, MH38, MH39, MH40, MH41, MH42, MH43, MH44, MH45, MH46, MH47, MH48, MH49, MH50, MH51, MH52, MH53, MH54, MH55, MH56, MH57, MH58, MH59, MH60, MH61, MH62, MH63, MH64, MH65, MH66, MH67, MH68, MH69, MH70, MH71, MH72, MH73, MH74, MH75, MH76, MH77, MH78, MH79, MH80, MH81, MH82, MH83, MH84, MH85, MH86, MH87, MH88, MH89, MH90, MH91, MH92, MH93, MH94, MH95, MH96, MH97, MH98, MH99, MH100. Components: +3V3, GND.

**Motor Voltage**

IC11: MP1584EN-LF-Z. Components: R13, R15, R17, R19, R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C31, C33, C35, C37, C39, C41, C43, C45, C47, C49, C51, C53, C55, C57, C59, C61, C63, C65, C67, C69, C71, C73, C75, C77, C79, C81, C83, C85, C87, C89, C91, C93, C95, C97, C99, C101. Components: VIN, EN, SW, COMP, FB, FREQ, GND, EP. Components: +3V3, GND.

**Battery input**

IC12: A03407A. Components: R22, R24, R26, R28, R30, R32, R34, R36, R38, R40, R42, R44, R46, R48, R50, R52, R54, R56, R58, R60, R62, R64, R66, R68, R70, R72, R74, R76, R78, R80, R82, R84, R86, R88, R90, R92, R94, R96, R98, R100. Components: XT\_30, A03407A, SS34A, SW1, XKB7070-Z. Components: +3V3, GND.

**128x64 px I2C display**

DSP1: 2864KSWE\_128X64I2C. Components: R21, R23, R25, R27, R29, R31, R33, R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100. Components: +3V3, GND.

**Gyro sensor**

IC14: MPU-6050. Components: R35, R37, R39, R41, R43, R45, R47, R49, R51, R53, R55, R57, R59, R61, R63, R65, R67, R69, R71, R73, R75, R77, R79, R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R101. Components: C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100. Components: +3V3, GND.

**External pins**

JP1: 2-T/L/1.80. JP2: 2-T/L/1.80. JP3: 2-T/L/1.80. JP4: 2-T/L/1.80. JP5: 2-T/L/1.80. JP6: 2-T/L/1.80. JP7: 2-T/L/1.80. JP8: 2-T/L/1.80. JP9: 2-T/L/1.80. JP10: 2-T/L/1.80. JP11: 2-T/L/1.80. JP12: 2-T/L/1.80. JP13: 2-T/L/1.80. JP14: 2-T/L/1.80. JP15: 2-T/L/1.80. JP16: 2-T/L/1.80. JP17: 2-T/L/1.80. JP18: 2-T/L/1.80. JP19: 2-T/L/1.80. JP20: 2-T/L/1.80. JP21: 2-T/L/1.80. JP22: 2-T/L/1.80. JP23: 2-T/L/1.80. JP24: 2-T/L/1.80. JP25: 2-T/L/1.80. JP26: 2-T/L/1.80. JP27: 2-T/L/1.80. JP28: 2-T/L/1.80. JP29: 2-T/L/1.80. JP30: 2-T/L/1.80. JP31: 2-T/L/1.80. JP32: 2-T/L/1.80. JP33: 2-T/L/1.80. JP34: 2-T/L/1.80. JP35: 2-T/L/1.80. JP36: 2-T/L/1.80. JP37: 2-T/L/1.80. JP38: 2-T/L/1.80. JP39: 2-T/L/1.80. JP40: 2-T/L/1.80. JP41: 2-T/L/1.80. JP42: 2-T/L/1.80. JP43: 2-T/L/1.80. JP44: 2-T/L/1

[illegible]

IC14  
MPU-6050

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

THERMAL PAD  
CLKIN  
NC\_1  
NC\_2  
NC\_3  
NC\_4  
AUX\_CL  
VDDIO  
ADD  
REGOUT  
FSYNC  
INT  
RESV\_1  
CROUT  
RESV\_2  
SCL  
SDA

19 20 21 22 23 24 25

IC13  
C48  
10nF

IC14  
MPU-6050

IC15  
C49  
10uF

IC16  
C51  
1uF

IC17  
FL3

IC18  
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 <b>IMHSD</b> Develop every day something new	Arche – RoboCore	
	Marvin Ramm	
	12.05.2023 15:37	
	Sheet: 2/2	REV: V3

 <b>IMHSD</b> Develop every day something new	Arche – RoboCore	
	Marvin Ramm	
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[github.com/codemarv42](https://github.com/codemarv42)