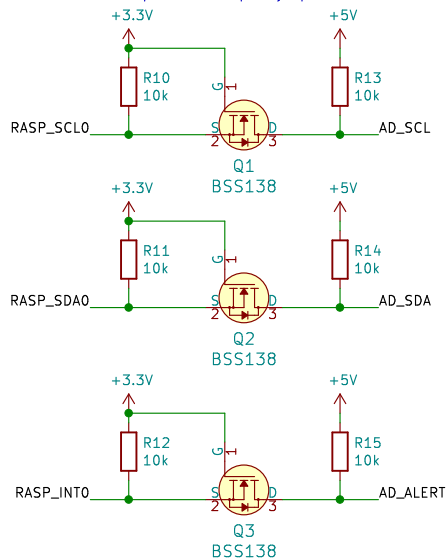


Conversores bidirecionais de nível:
Eles são responsáveis por adequar a tensão dos sinais I2C do ADC para a Raspberry.
O ADC necessita operar com 5V por causa dos sensores da Alphasense entretanto, os pinos da Raspberry operam com 3,3V



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Sheet: /
File: envcity_aqm.sch

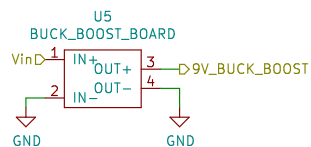
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Size: A4 Date: 2021-12-26

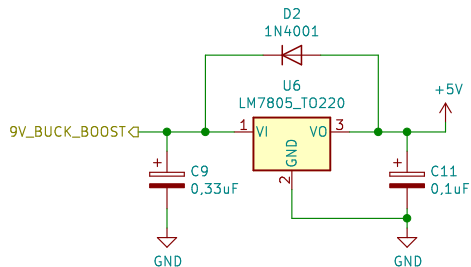
KiCad E.D.A. kicad (5.1.5)-3

Rev: v1.0

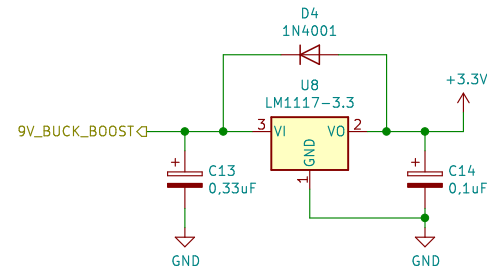
Id: 1/5



Linha de Alimentação 5V – Regulada
5V – 1A
O diodo 1N4001 é para proteção do regulador caso
a tensão de entrada caia mais rapidamente do que a tensão de saída.



Linha de Alimentação 3.3V – Regulada
3.3V – 1A



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Sheet: /Reguladores/
File: regulators.sch

Title:

Size: A4 Date: 2021-12-26

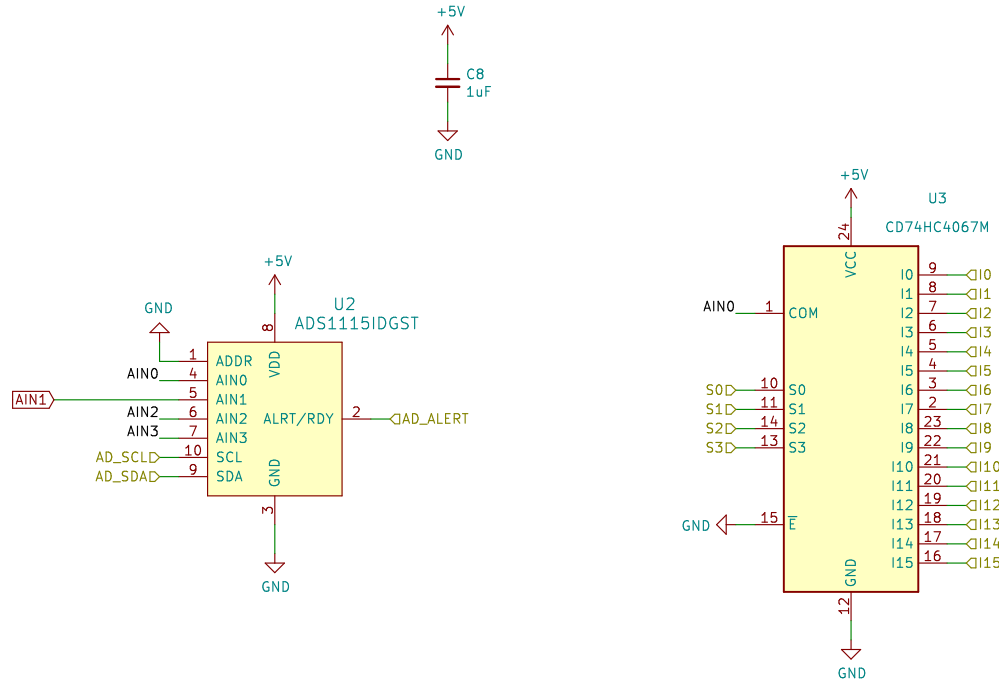
KiCad E.D.A. kicad (5.1.5)-3

Rev: v1.0

Id: 2/5

O endereço I2C é selecionado pelo pino ADDR.
Este pino deve ser conectado ao GND, VSS, SCL ou SDA.
Cada conexão faz com que o CI selecione um endereço.

Table 4. ADDR Pin Connection and Corresponding Slave Address	
ADDR PIN CONNECTION	SLAVE ADDRESS
GND	101000
VDD	1001001
SDA	1001010
SCL	1001011



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Sheet: /ADS1115+MUX/
File: ads1115_mux.sch

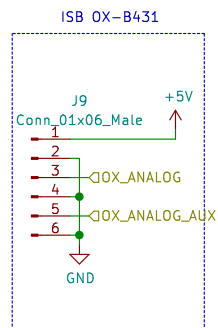
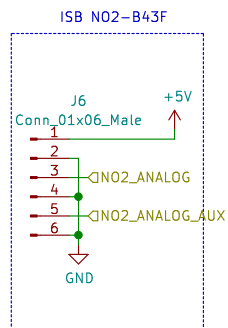
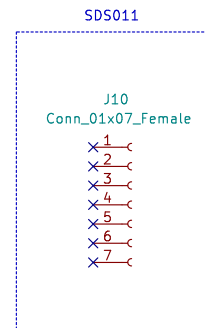
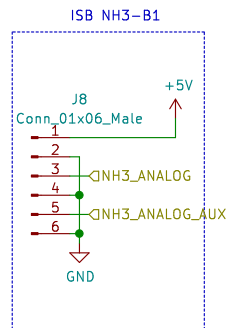
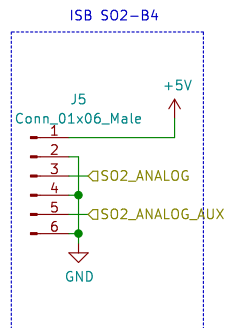
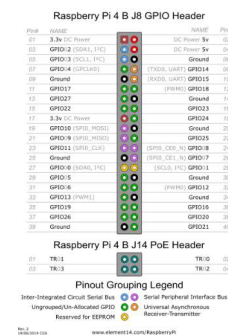
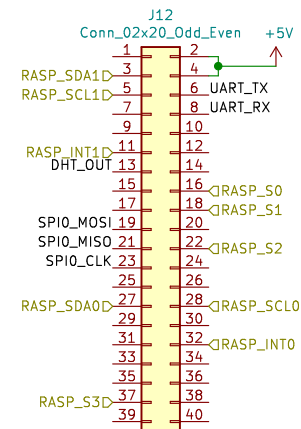
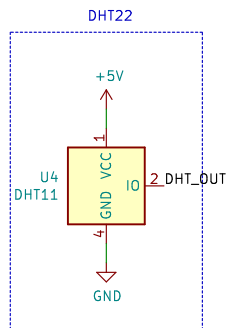
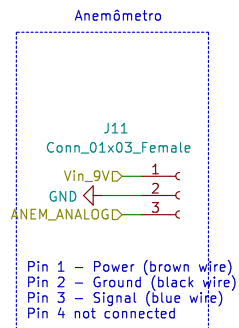
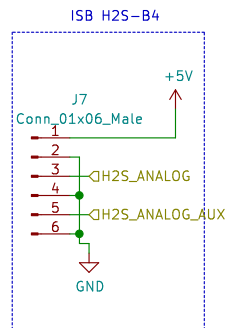
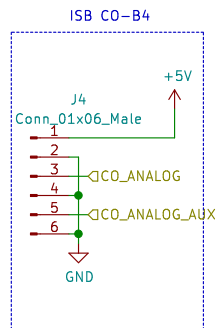
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KiCad E.D.A. kicad (5.1.5)-3

Rev: v1.0

Id: 3/5



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File: sensores.sch

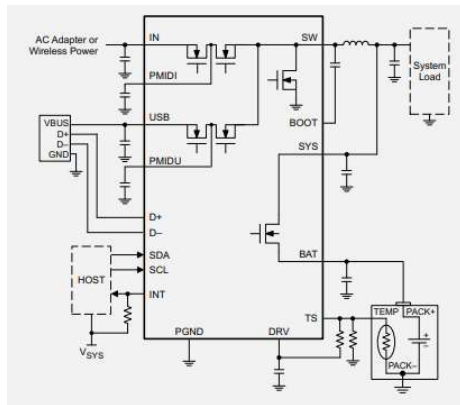
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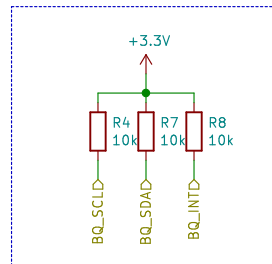
KiCad E.D.A. kicad (5.1.5)-3

Rev: v1.0

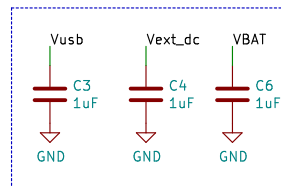
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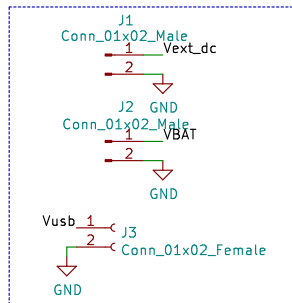
Resistores de pull-up
BQ2416X



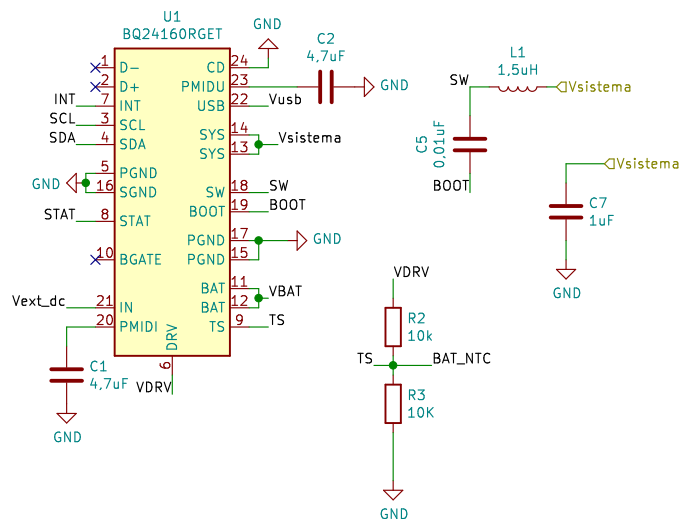
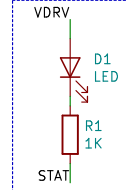
Capacitores - Alimentação



Conectores para a fonte e para a bateria



LED indicativo
BQ2416X



Sheet: /Gerenciamento de Bateria/
File: bms.sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad (5.1.5)-3

Rev:

Id: 5/5