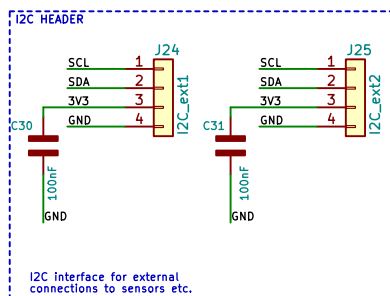
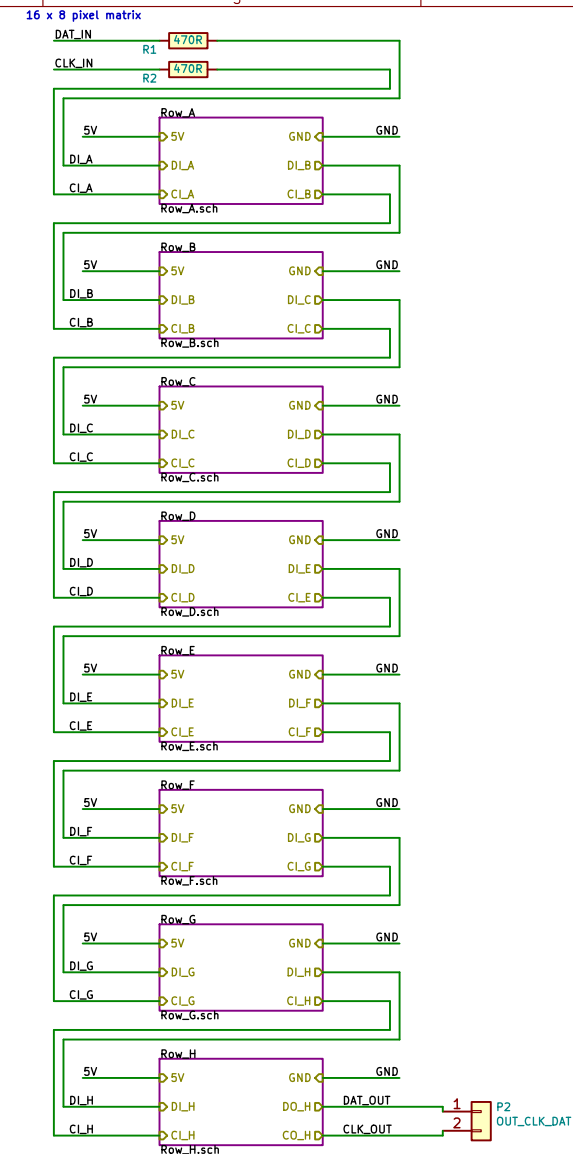
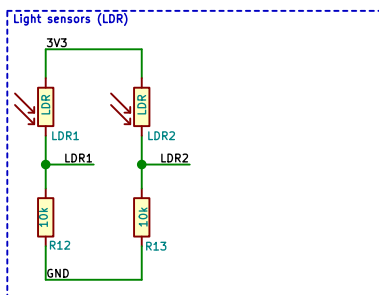
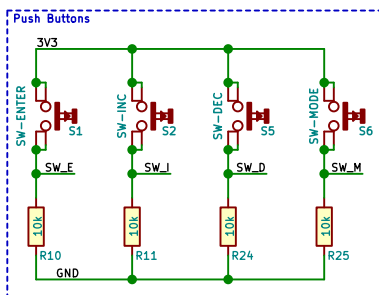
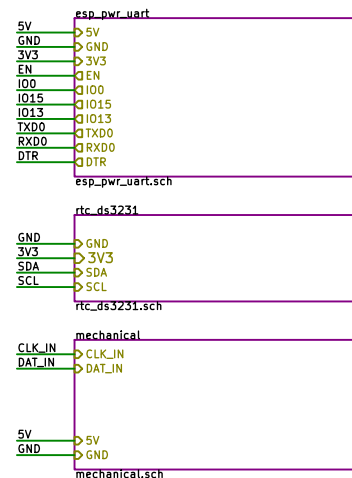


SPI header with breakout pins.
Connect with wire to appropriate pins on ESP32

Native SPI pins are (clk, mosi, miso, cs):
SPI1: 6, 8, 7, 11
HSPI: 14, 13, 12, 15
VSPI: 18, 23, 19, 5
If using native pins max SPI clock can be set to 80 MHZ.
Only HSPI & VSPI are supported by esp-idf driver.



I2C interface for external connections to sensors etc.



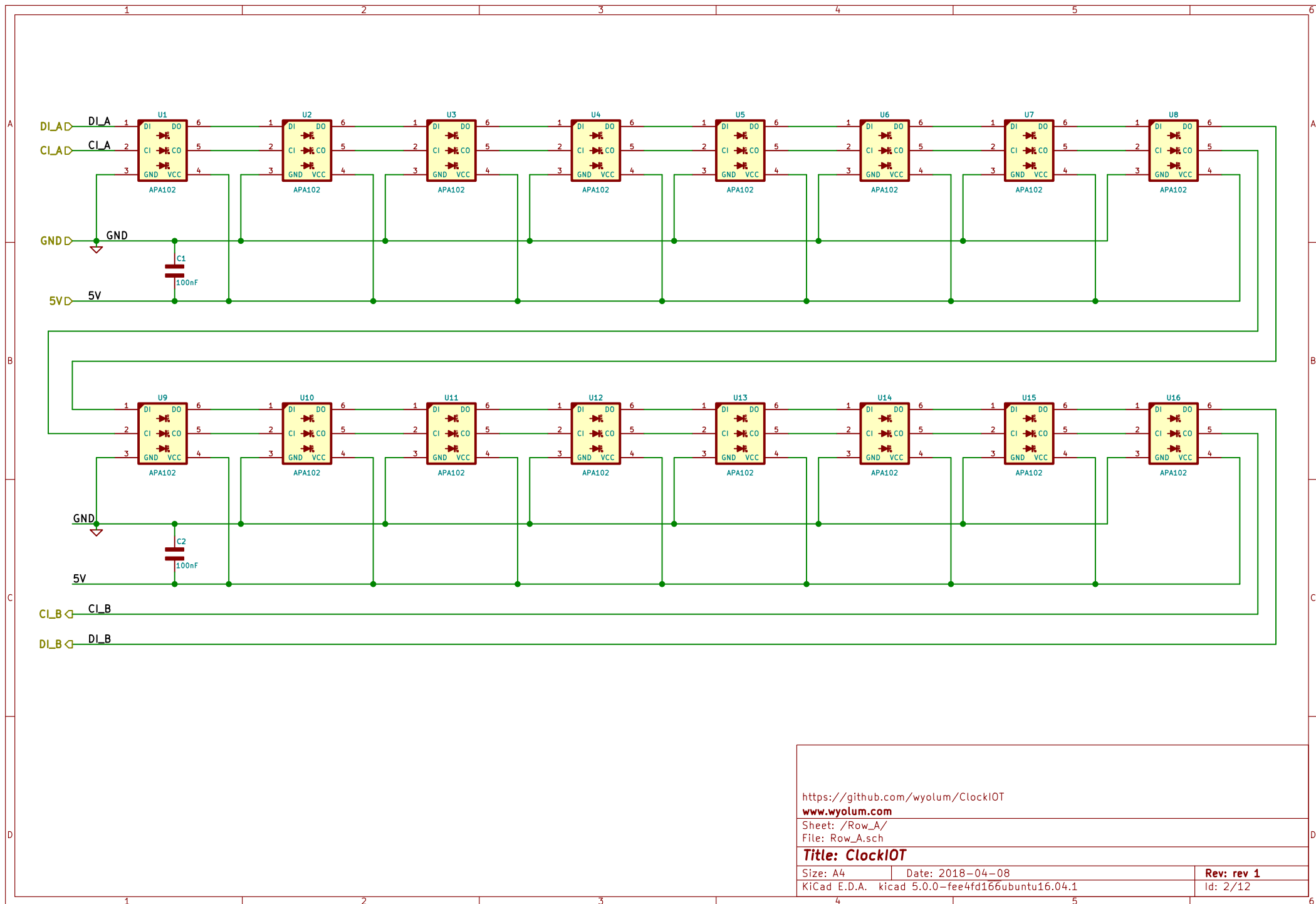
Wyolum 
<https://github.com/wyolum/ClockIoT>
www.wyolum.com

KiCad 

Sheet: /
 File: ClockIoT.sch
Title: ClockIoT

Size: A4 Date: 2018-06-10
 KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1
 Rev: rev 2
 Id: 1/12

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Sheet: /Row_A/

File: Row_A.sch

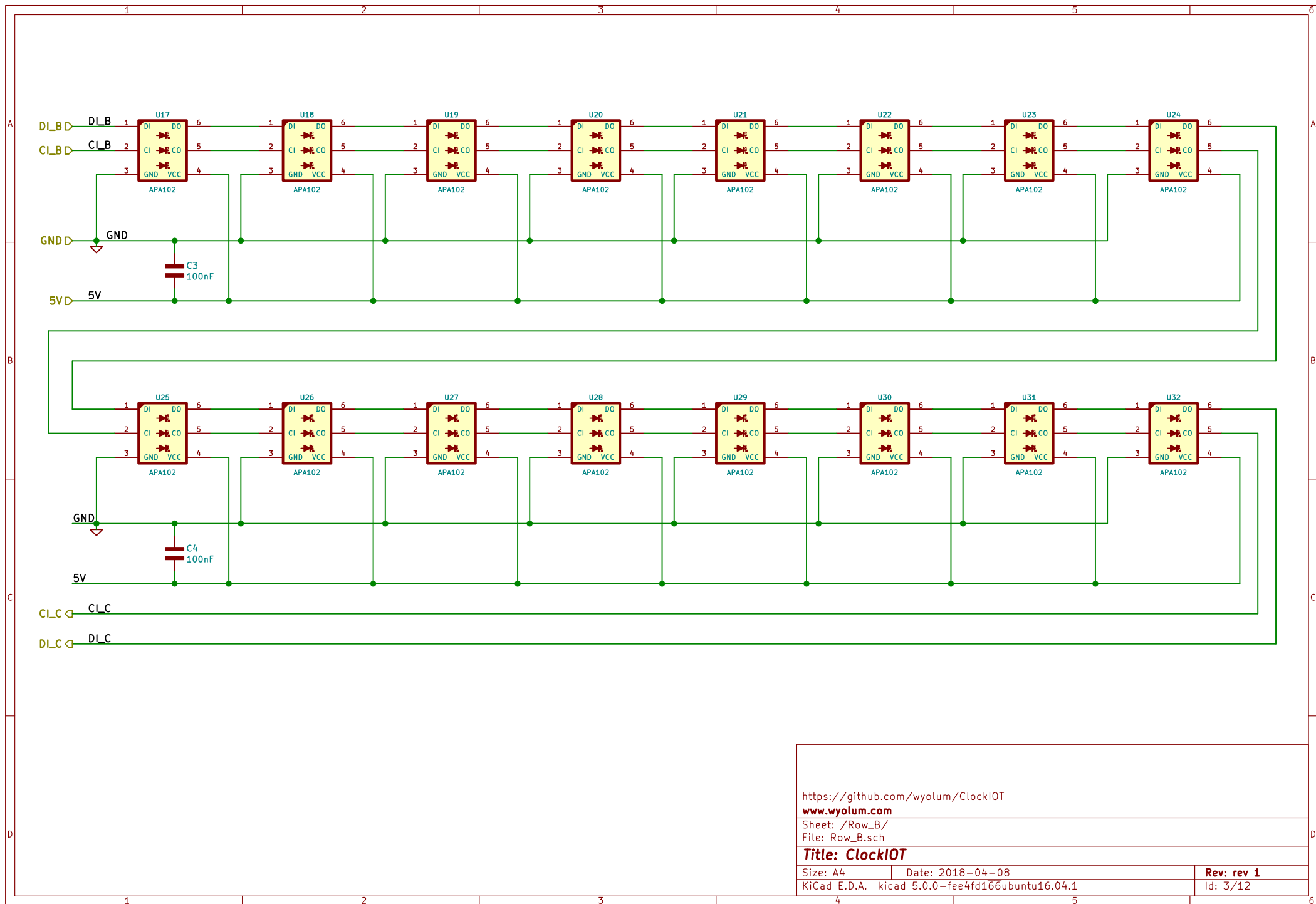
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Size: A4 Date: 2018-04-08

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Rev: rev 1

Id: 2/12



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Sheet: /Row_B/

File: Row_B.sch

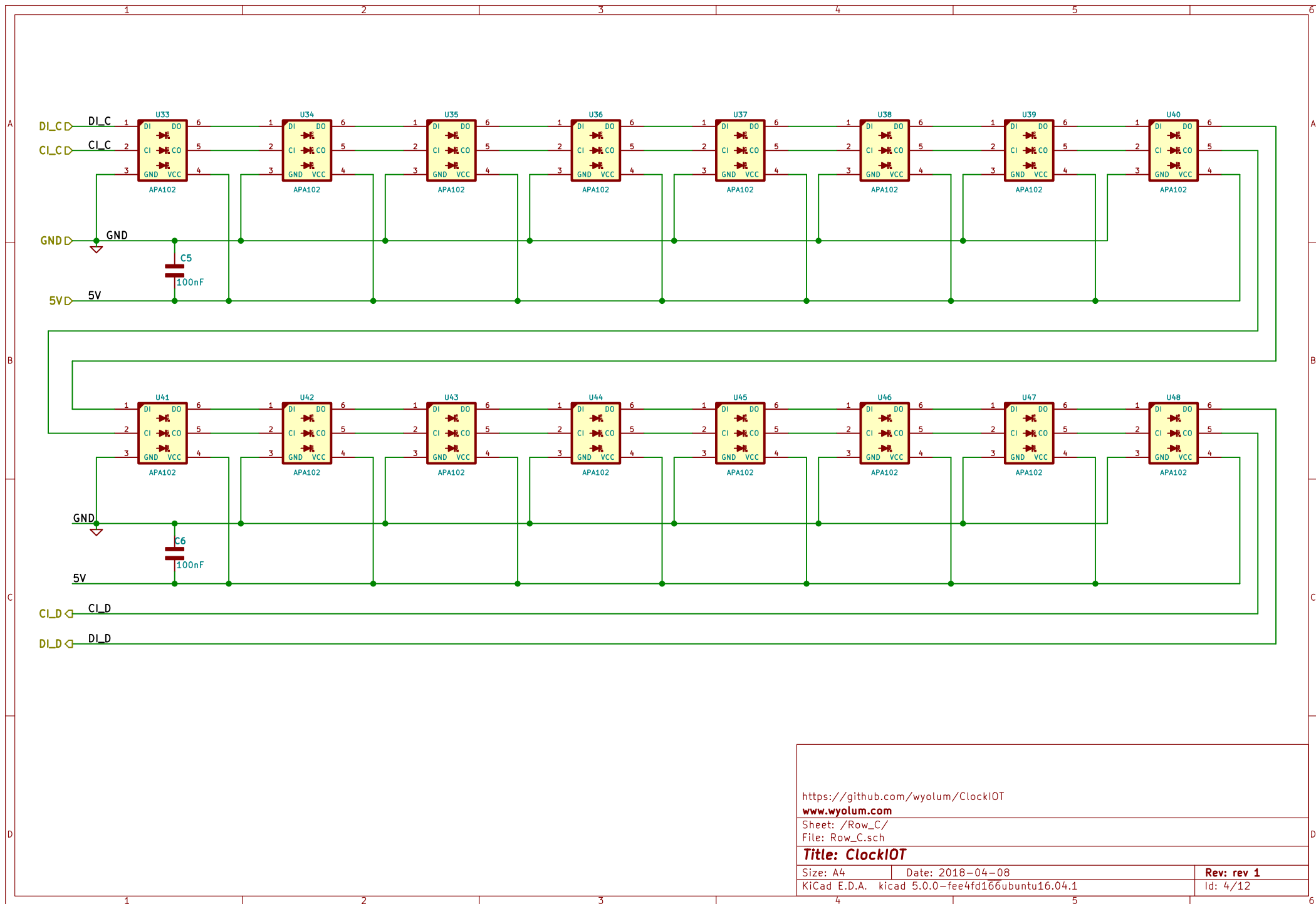
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Size: A4 Date: 2018-04-08

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Rev: rev 1

Id: 3/12



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Sheet: /Row_C/

File: Row_C.sch

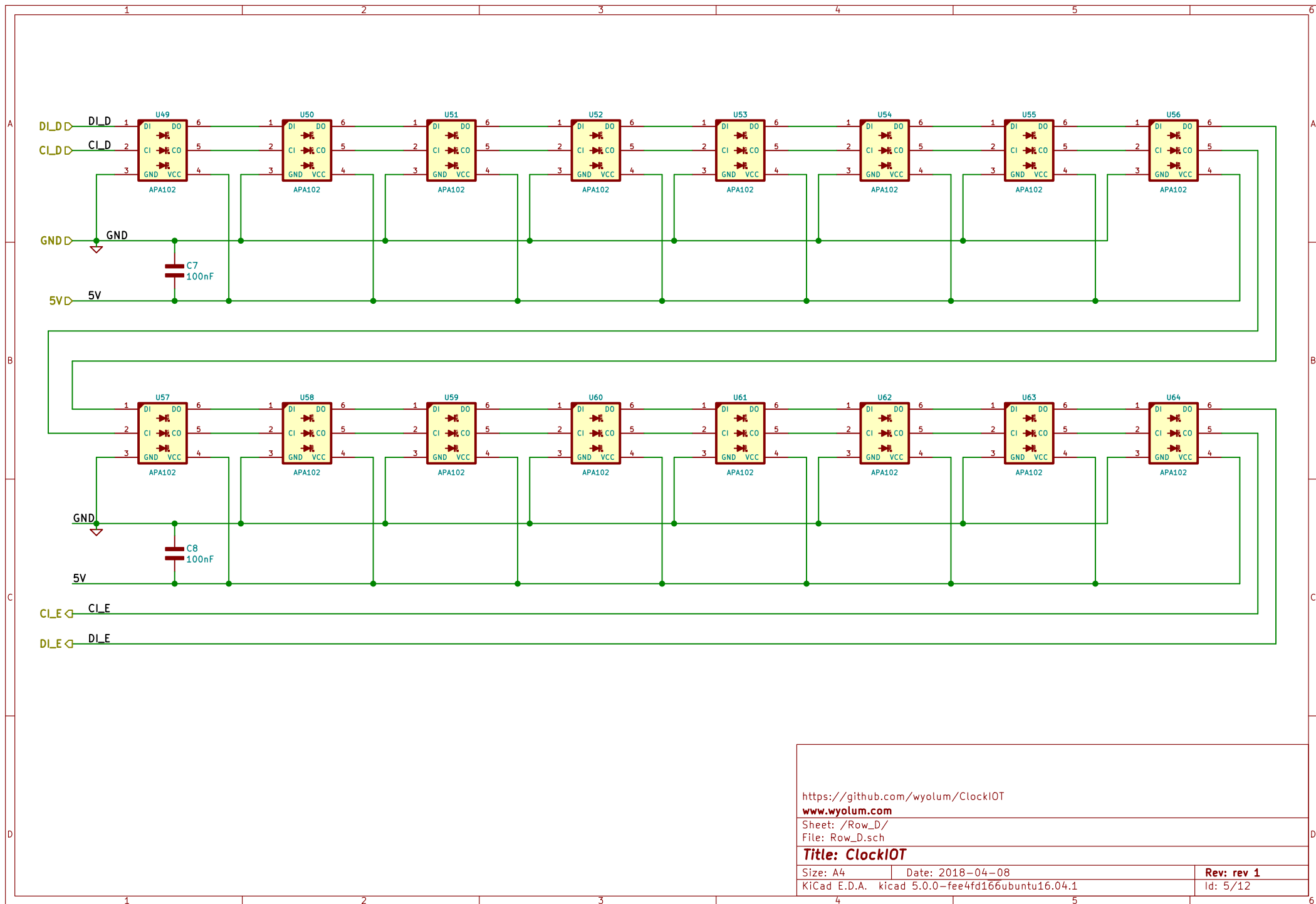
Title: ClockIOT

Size: A4 Date: 2018-04-08

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Rev: rev 1

Id: 4/12



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Sheet: /Row_D/

File: Row_D.sch

Title: ClockIOT

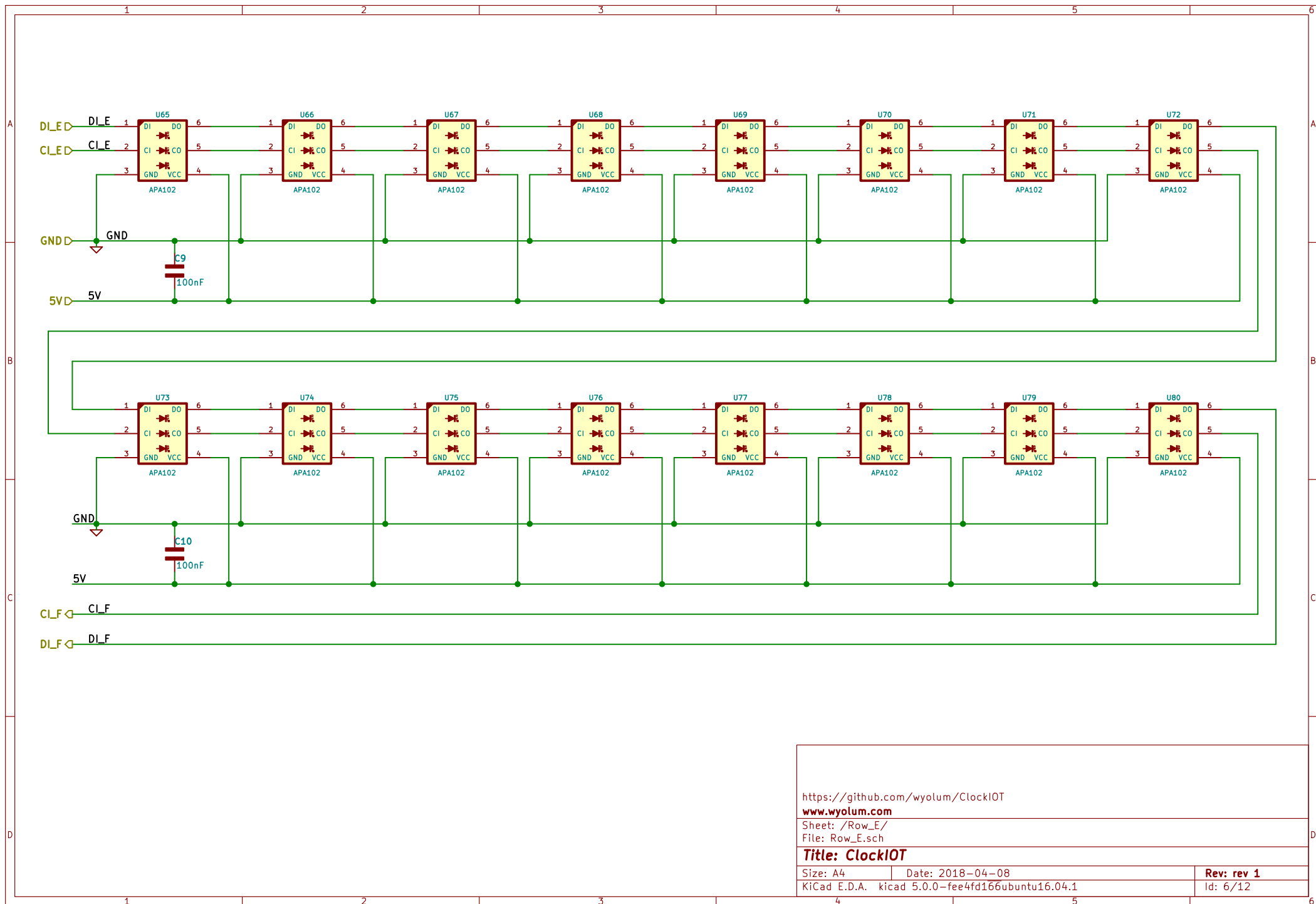
Size: A4

Date: 2018-04-08

Rev: rev 1

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Id: 5/12



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Sheet: /Row_E/

File: Row_E.sch

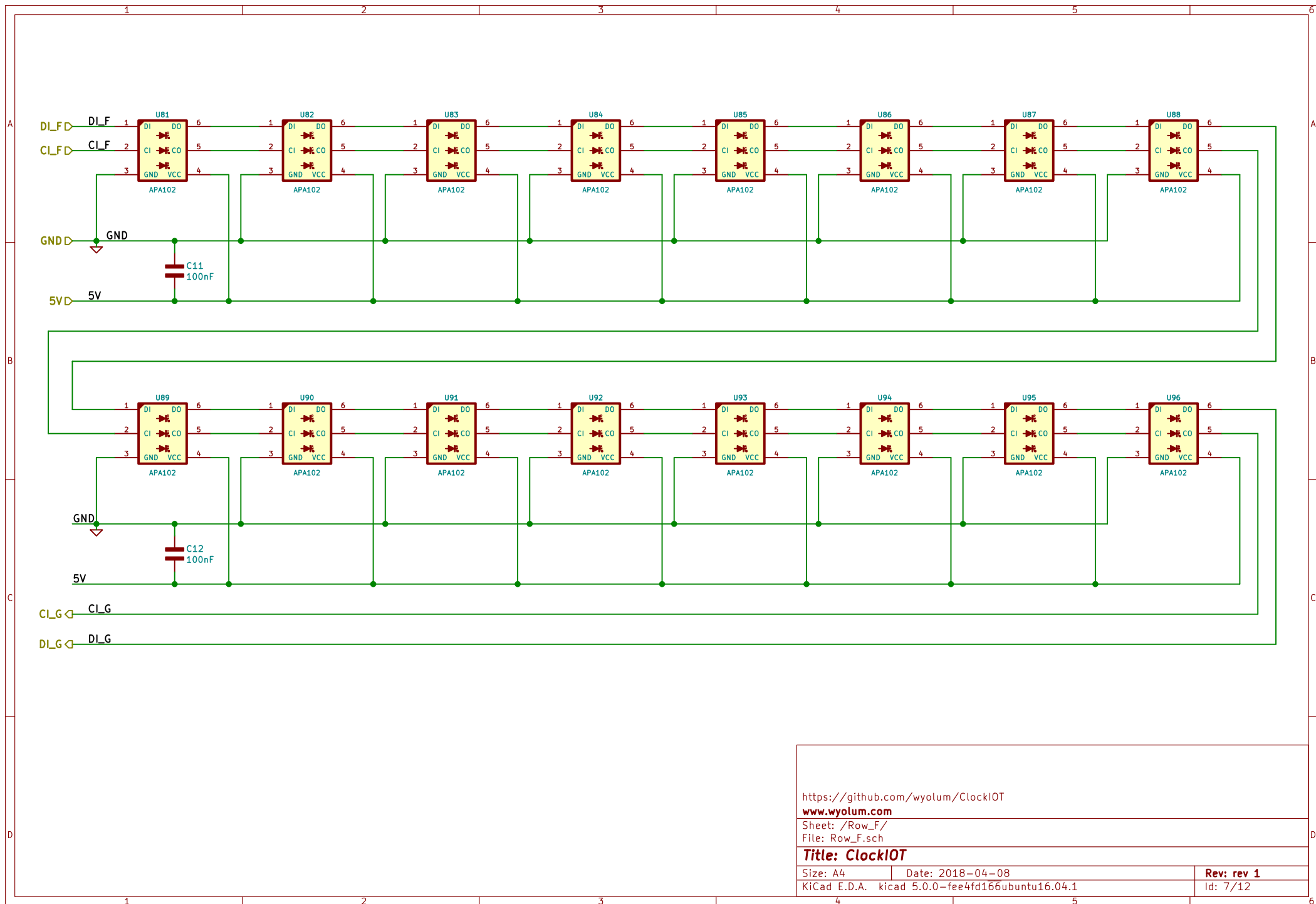
Title: ClockIOT

Size: A4 Date: 2018-04-08

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Rev: rev 1

Id: 6/12



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Sheet: /Row_F/

File: Row_F.sch

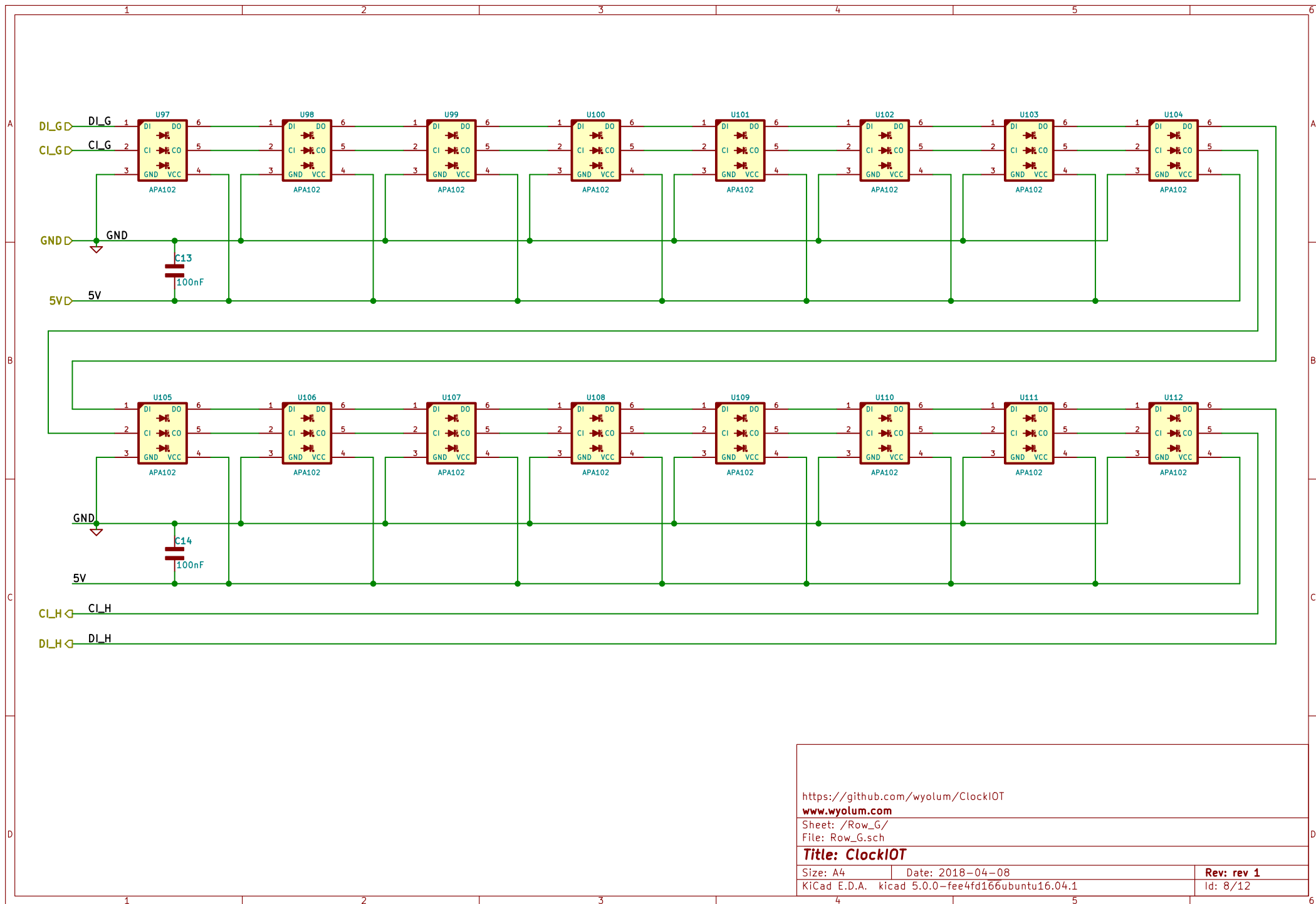
Title: ClockIOT

Size: A4 Date: 2018-04-08

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Rev: rev 1

Id: 7/12



<https://github.com/wyolum/ClockIOT>

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Sheet: /Row_G/

File: Row_G.sch

Title: ClockIOT

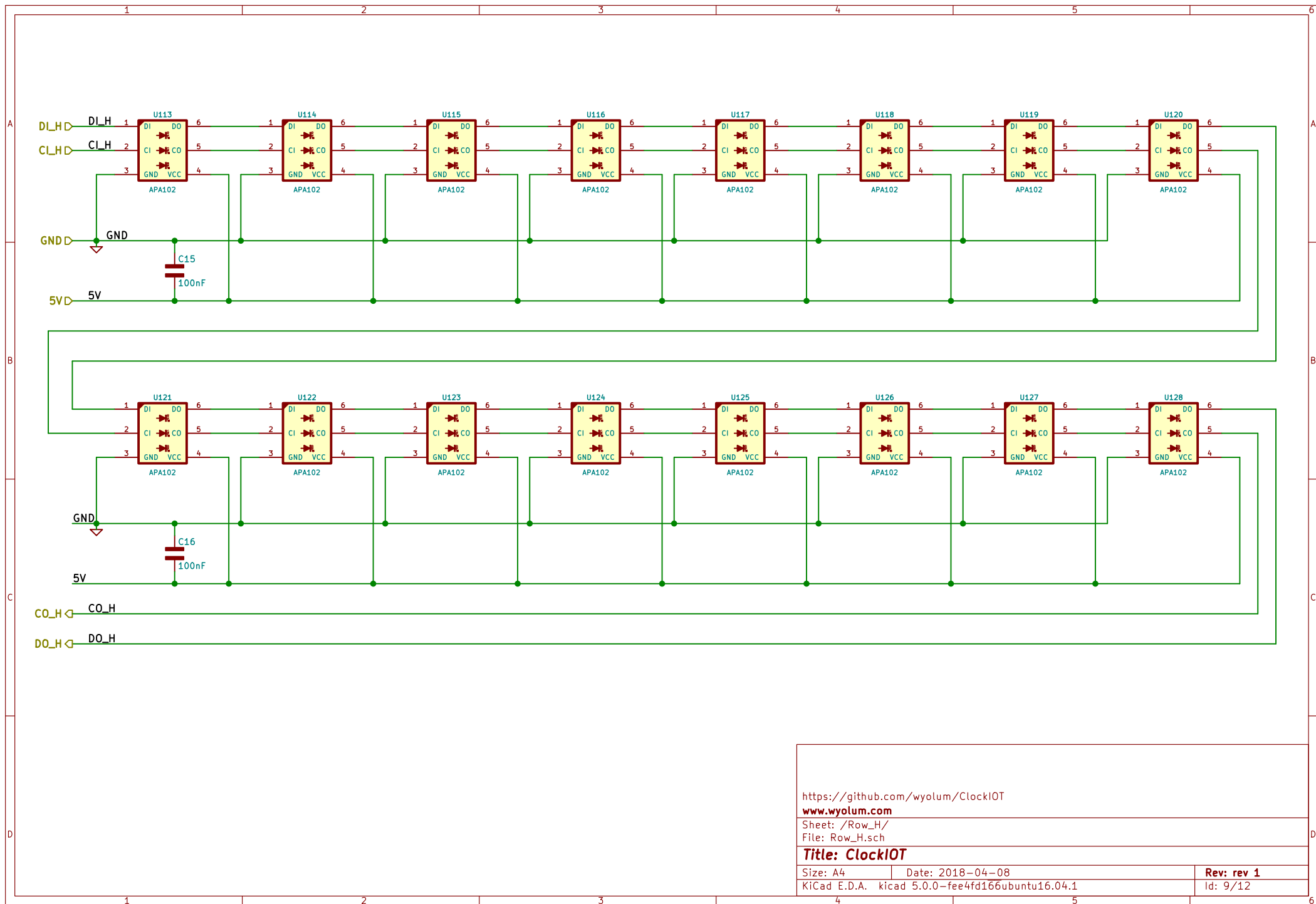
Size: A4

Date: 2018-04-08

Rev: rev 1

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Id: 8/12



<https://github.com/wyolum/ClockIOT>

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Sheet: /Row_H/

File: Row_H.sch

Title: ClockIOT

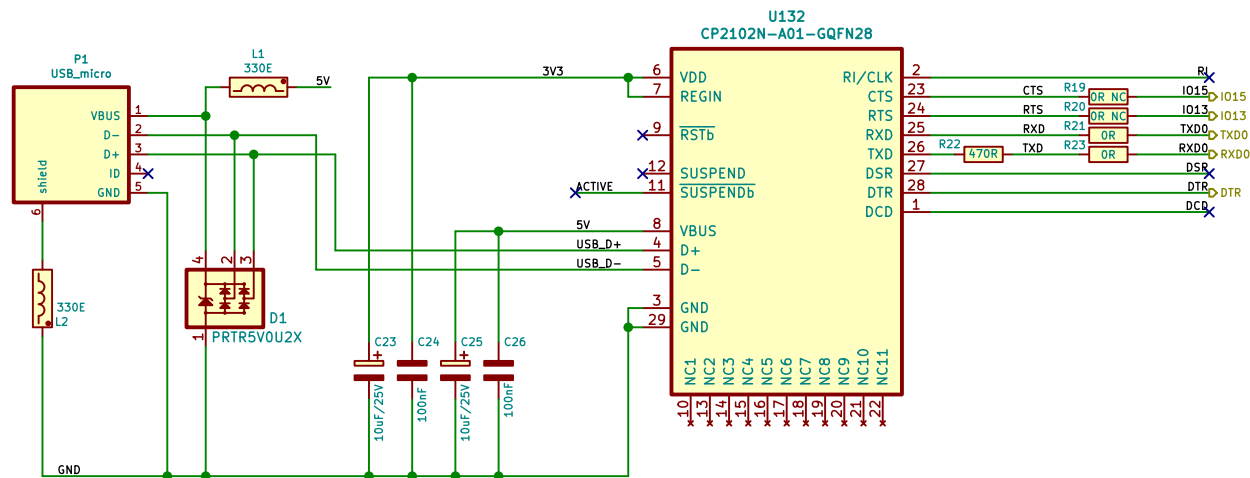
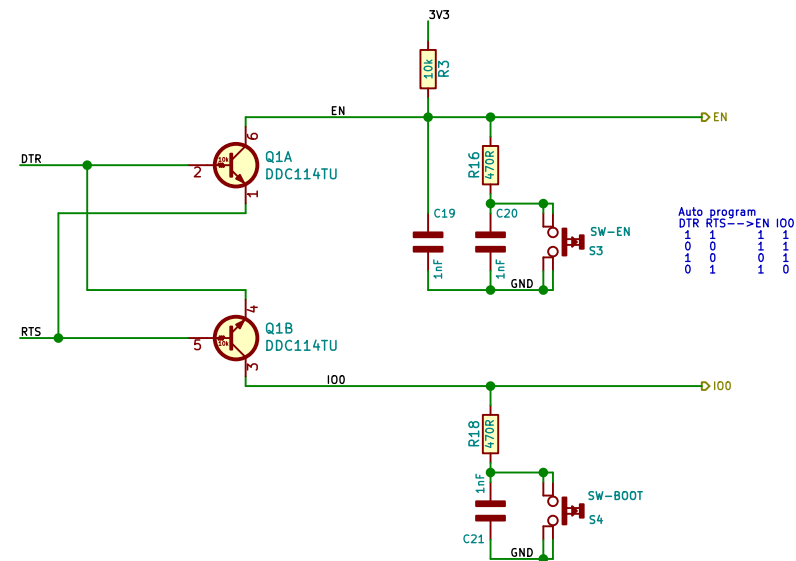
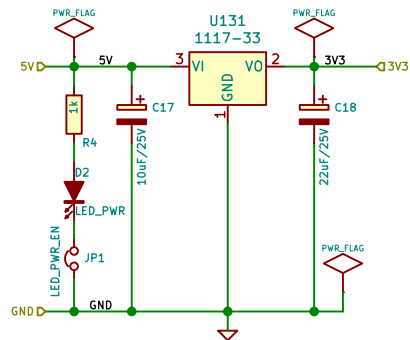
Size: A4

Date: 2018-04-08

Rev: rev 1

KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1

Id: 9/12



<https://github.com/wyolum/ClockIoT>
www.wyolum.com
 Sheet: /esp_pwr_uart/
 File: esp_pwr_uart.sch

KiCad open source hardware

Title: ClockIoT

Size: A4	Date: 2018-04-08
KiCad E.D.A. kicad 5.0.0-fee4fd166ubuntu16.04.1	Rev: rev 1
	Id: 12/12