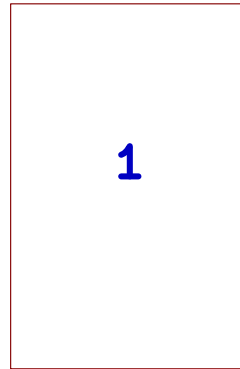


HMI LCD

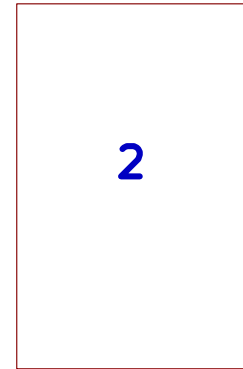
Add on module for WIZcube HMI

M10RASPI



1

LCD



2

According to OSHA <https://www.oshwa.org/a-resolution-to-redefine-spi-signal-names/>

New signal names:

SDO – Serial Data Out. An output signal on a device where data is sent out to another SPI device.
SDI – Serial Data In. An input signal on a device where data is received from another SPI device.
CS – Chip Select. Activated by the controller to initiate communication with a given peripheral.
PICO (peripheral in/controller out). For devices that can be either a controller or a peripheral: the signal on which the device sends output when acting as the controller, and receives input when acting as the peripheral.
POCI (peripheral out/controller in). For devices that can be either a controller or a peripheral: the signal on which the device receives input when acting as the controller, and sends output when acting as the peripheral.
SDIO – Serial Data In/Out. A bi-directional serial signal.

Deprecated signal names:

MOSI – Master Out Slave In
MISO – Master In Slave Out
SS – Slave Select
MOMI – Master Out Master In
SOSI – Slave Out Slave In

Signal names unchanged:

SCK – Serial Clock. The clock for the bus generated by the controller.

Add on module for WIZcube HMI
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M10CUBE

Sheet: /
File: M10HM02-20.kicad_sch

Title: WIZcube M10HM01

Size: A4 Date: 2022-02-18

KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1

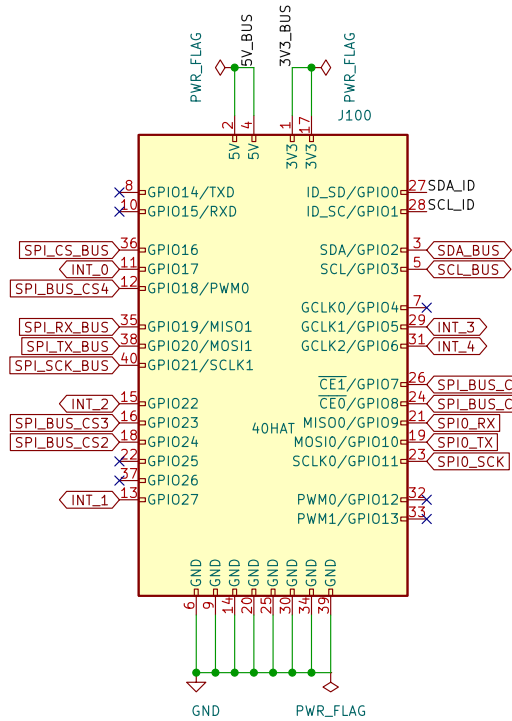
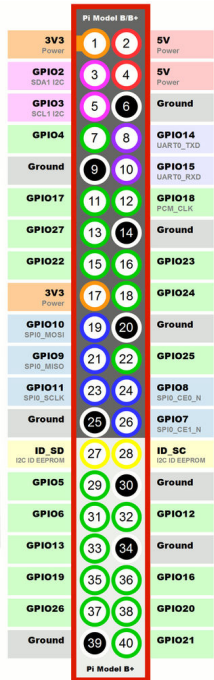


GR000004

Rev: 20.1.1

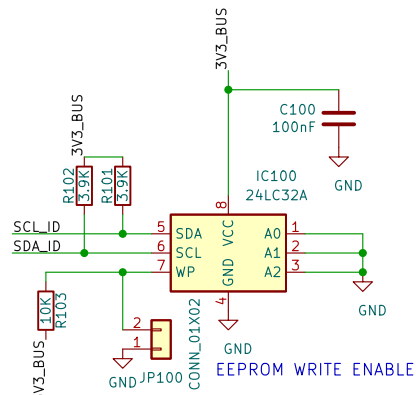
Id: 1/3

RASPBERRI PI HAT STAGE




HAT EEPROM

The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare IO pin to do so.



LOG1
OSHWGR

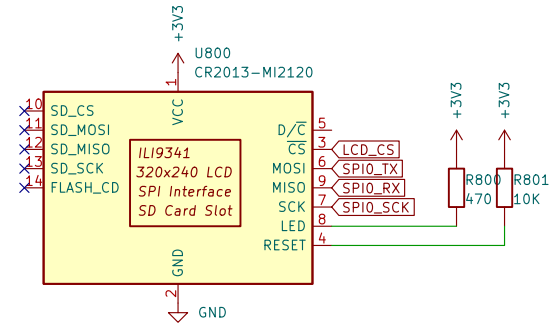
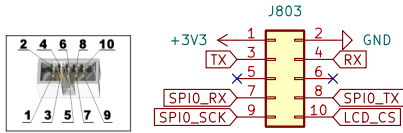
- H1
- H2
- H3
- H4

 GR000004	
Add on module for WIZcube HMI Licensed under the CERN OHL P 2.0 or later M10CUBE	
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Size: A4	Date: 2022-02-18
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	Id: 1/3

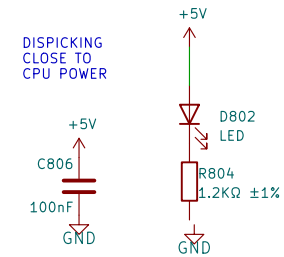
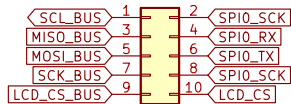
RASPBERRY PICO STAGE

UEXT I2C SPI UART

Pin #	Signal Name
1	3.3V
2	GND
3	TXD
4	RXD
5	SCL
6	SDA
7	MISO
8	MOSI
9	SCK
10	SEEL



INSERTING JUMPERS CAN BE USED AS
STANT ALONE PLUGED ON RASPI 40 PIN BUS
JP800



Add on module for WIZcube HMI
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M10CUBE
Sheet: /LCD/
File: lcd.kicad_sch

Title: WIZcube M10HM01

Size: A4 Date: 2022-02-18
KiCad E.D.A. kicad 6.0.2-378541a8eb-116-ubuntu21.10.1

Rev: 20.1.1
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