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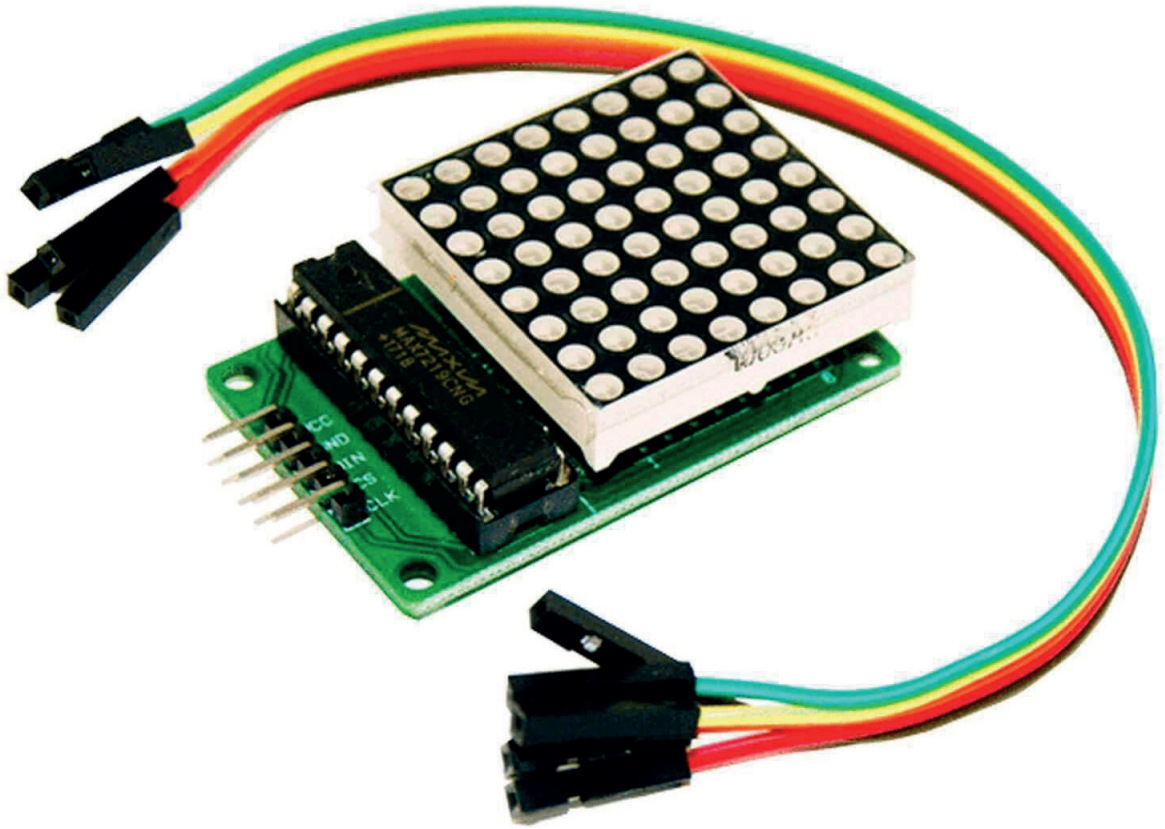
Ihr Experte für Mikroelektronik!

8x8 1-Dot Matrix MCU LED Anzeigemodul Datenblatt

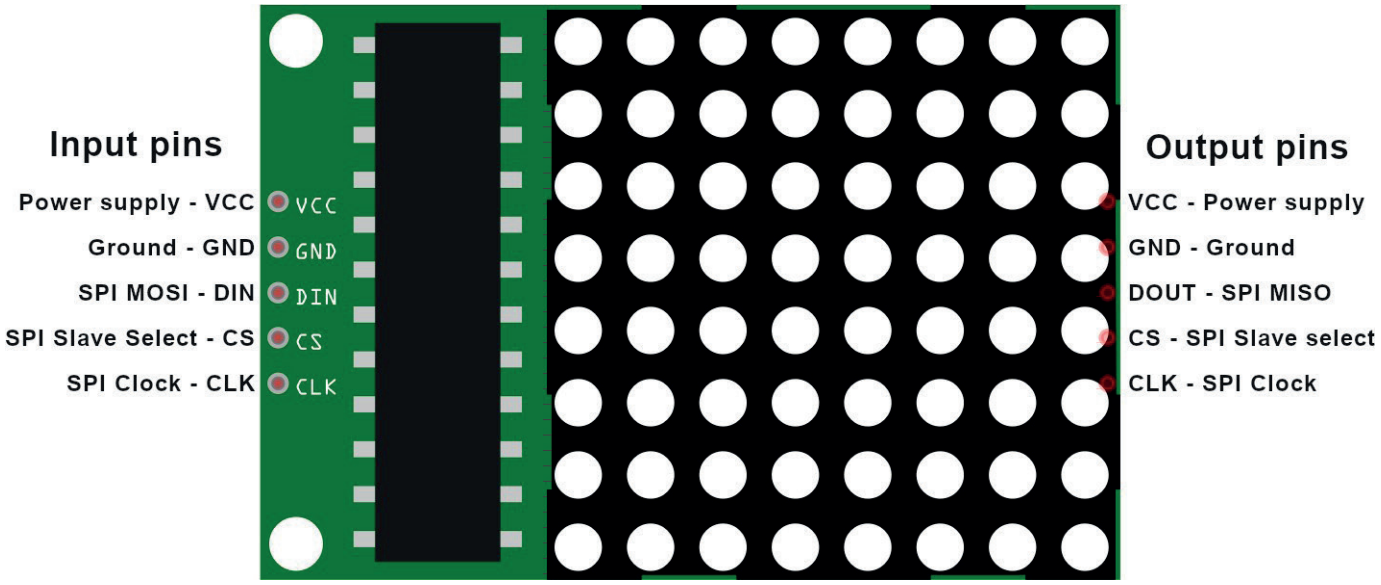


Content:

1. Specifications

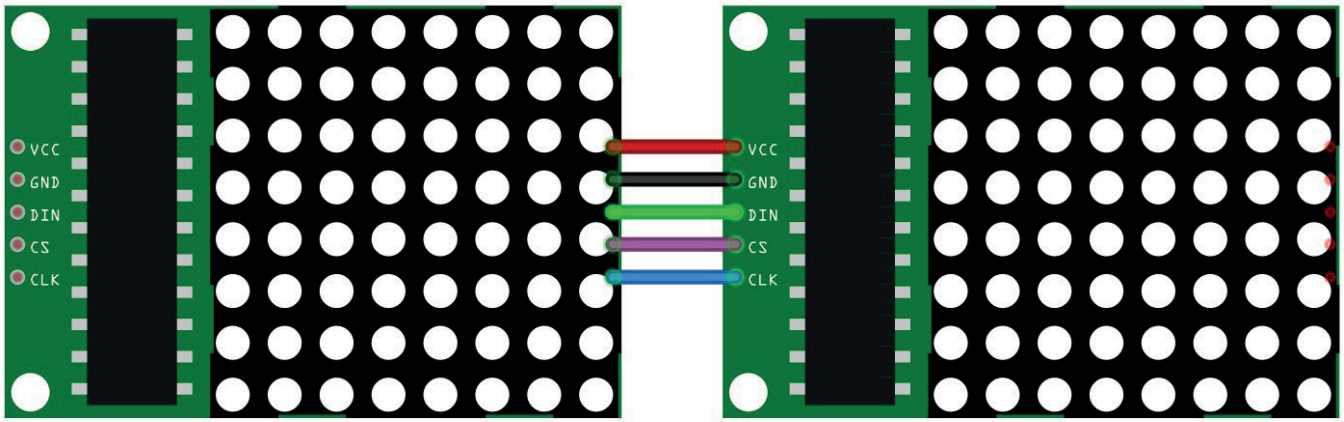
- Operating voltage range: From +3.3V to +5V DC
- Color of LEDs: Red
- Brightness control: digital and analog
- Dimensions: 32mm x 50mm x 15mm [1.3in x 2in x 0.6in]
- 10MHz SPI interface
- Display blanked on power-up
- Drive common-cathode LED screens

2. Pinout



The driver chip uses SPI interface, where:
DIN > SPI MOSI – Master Output Slave Input
CS > SPI SS – Slave Select
CLK > SPI Clock – Clock signal

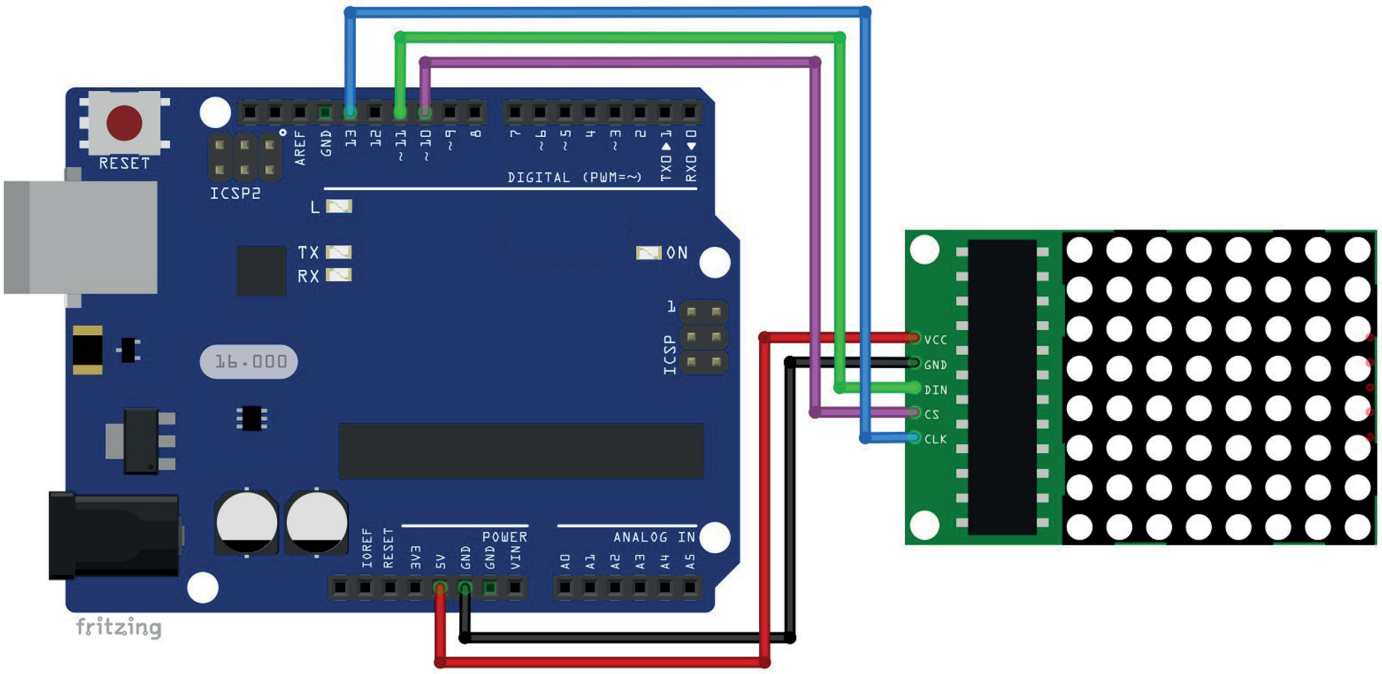
The screens can be connected (stacked) serially, where the output pin of the first screen is connected to the input pins of the second screen, and so on. This can be seen on the following image:



First screen › Second screen
VCC › VCC
GND › GND
DOUT › DIN
CS › CS
CLK › CLK

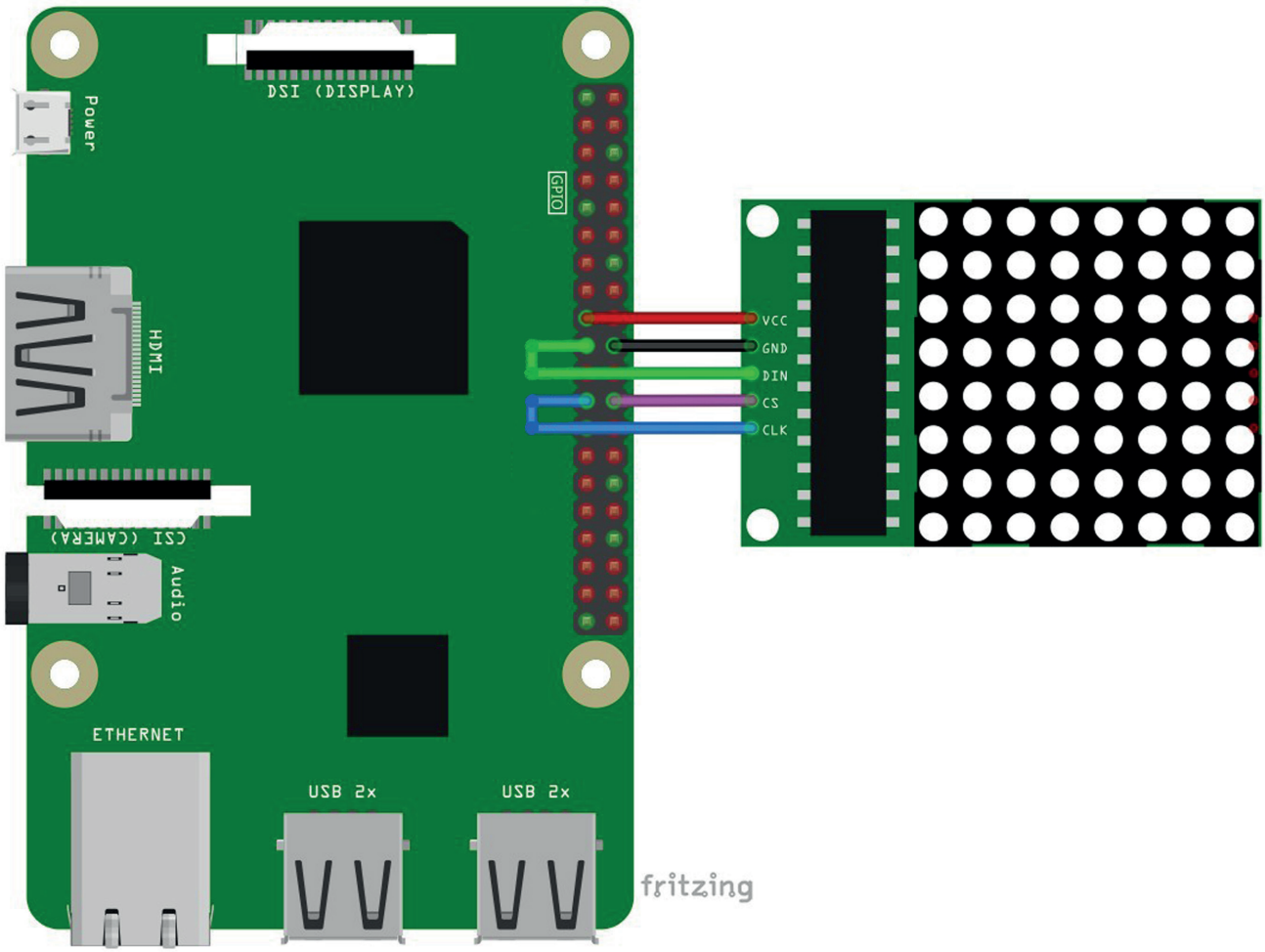
After connecting multiple screens, the number of connected devices in the sketch example (or Python script example) should be updated accordingly.

3. Connection Diagram



Module Pin	Microcontroller Pin	Wire Color
VCC	5V	Red Wire
GND	GND	Black Wire
DIN (MOSI)	D11 Pin	Green Wire
CS (SS)	D10 Pin	Purple Wire
CLK (SCK)	D13 Pin	Blue Wire

NOTE: As there are different versions of the module, make sure to read the pin designations before connecting it. Alternative pin names are included inside the parentheses.



Module Pin	Microcontroller Pin	Physical Pin	Wire Color
VCC	3V3	17	Red Wire
GND	GND	20	Black Wire
DIN (MOSI)	GPIO10	19	Green Wire
CS (SS)	GPIO8	24	Purple Wire
CLK (SCK)	GPIO11	23	Blue Wire

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