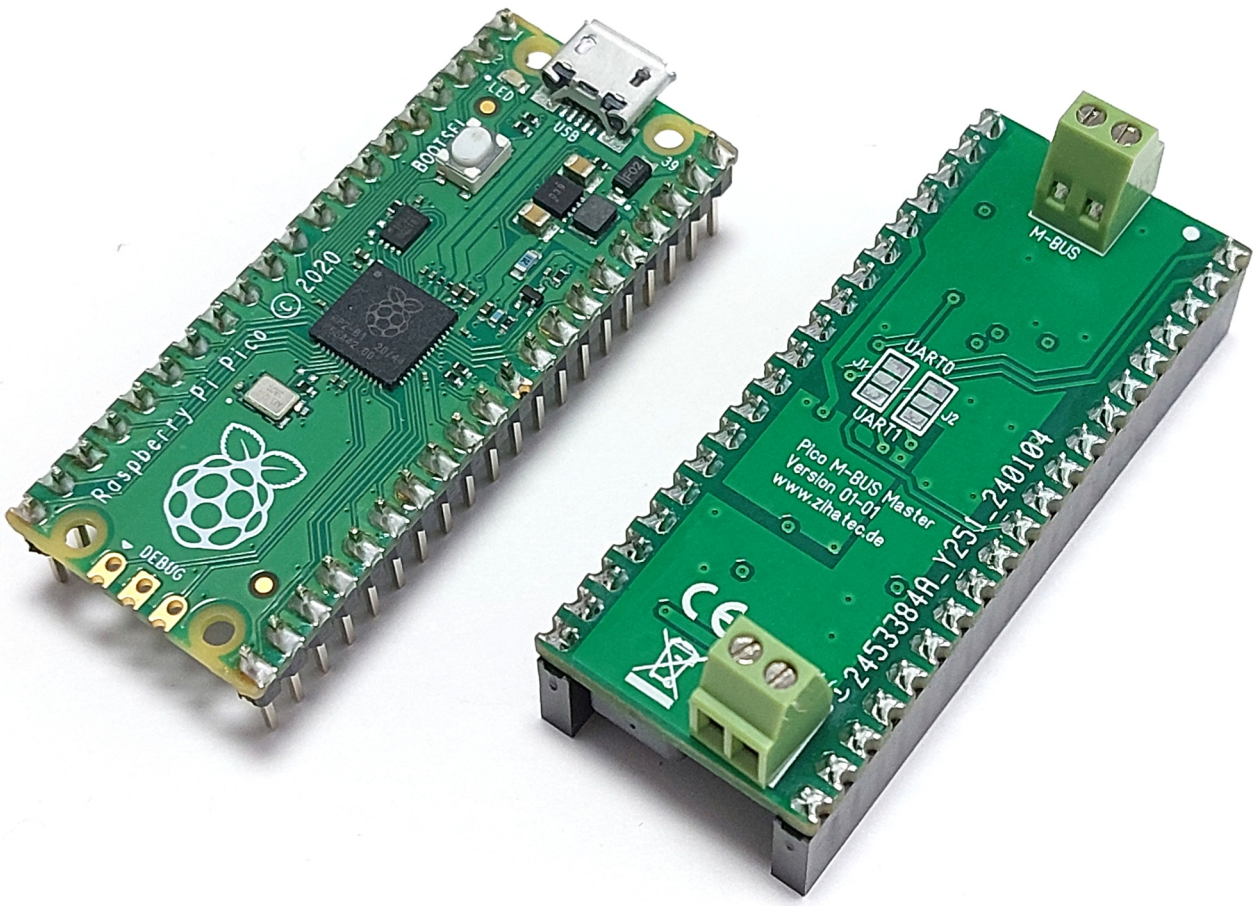
M-Bus Master HAT

for Raspberry Pi Pico



Features:

- M-Bus (Meter-Bus) master
- Compatible to European standard EN 13757-2
- For the remote reading of consumption meters
- For up to 6 unit-loads (9mA)
- Terminal for optional external DC power supply (9...30V)
- Galvanicaly isolated interface
- Miniature screw terminals for bus and power supply connection
- UART selection via soldering jumpers
- Soldered female headers
- For Raspberry Pi Pico only

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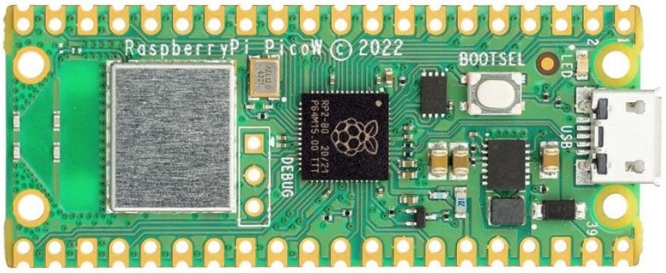
Compatibility :

Raspberry Pi Pico (H)

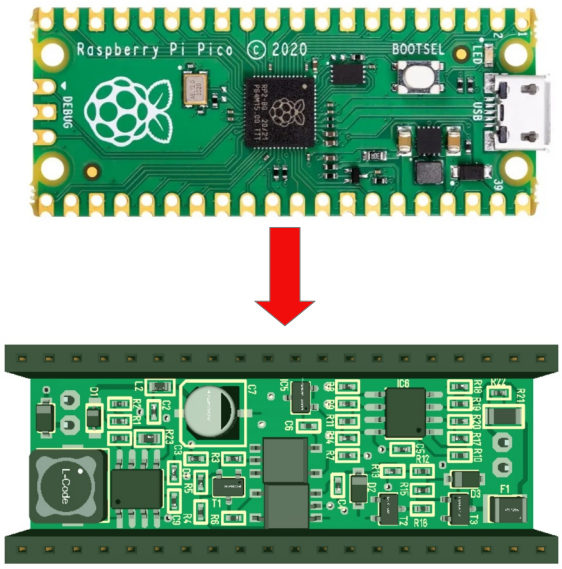


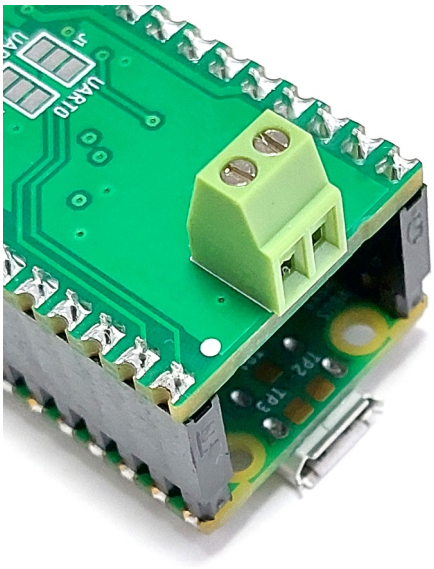
Raspberry Pi Pico W(H)

Part number table:

Part-No.	EAN	Version
RPIPHTM	0676424951466	Pico MBUS Master HAT with soldered female headers

Connection:





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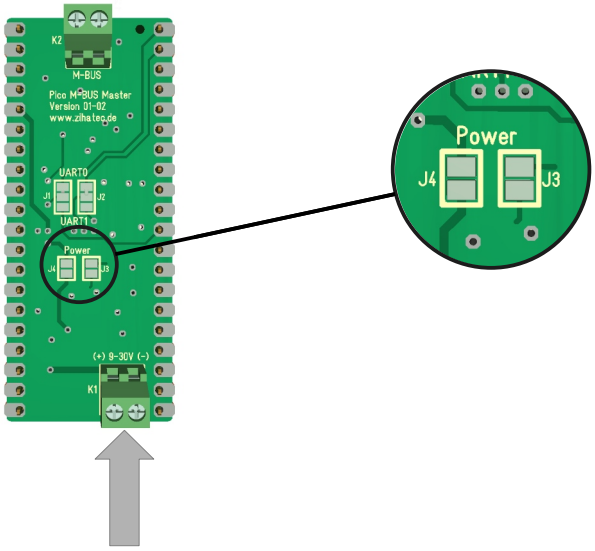
Power supply:

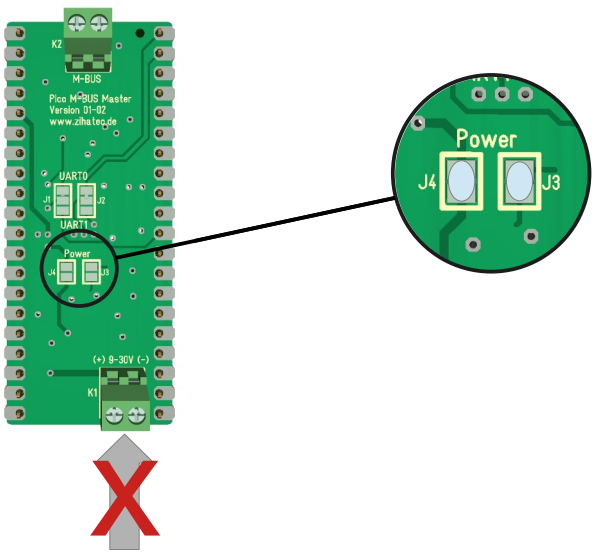
a) External power supply (recommended)



solder jumpers J3 and J4
remain open!
(factory setting)

Connect an external supply voltage
of 9V to 30V DC to terminal K1

b) Internal power supply from USB



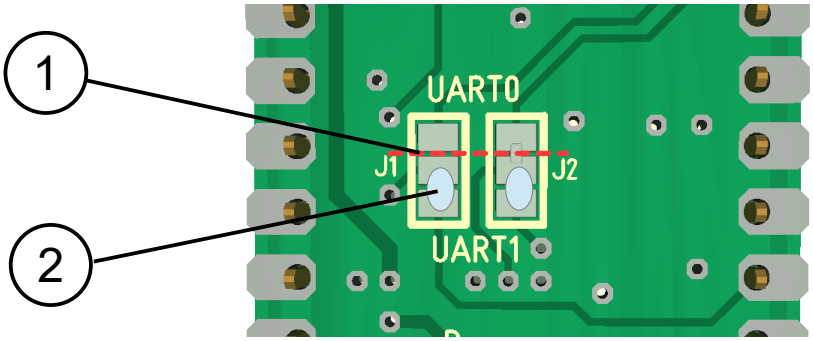
Jumpers J3 and J4 are
closed with solder!

Terminal K1 remains unconnected.

Attention: A voltage at K1 with closed jumpers J3 and J4 can damage the Raspberry Pico!

UART selection via soldering jumpers:

UART0 (GP1 and GP2) is selected on delivery. Alternatively, UART1 (GP8 and GP9) can also be selected via the solder jumpers on the top:



① cut existing connections for UART0
② solder new connections for UART1

Used Raspberry Pi Pico Pins:

Depending on the selected UART via jumpers different pins are used:

Function	UART0	UART1
TX	GP0 (1)	GP8 (11)
RX	GP1 (2)	GP9 (12)
3.3V	36	
GND	28, 38	

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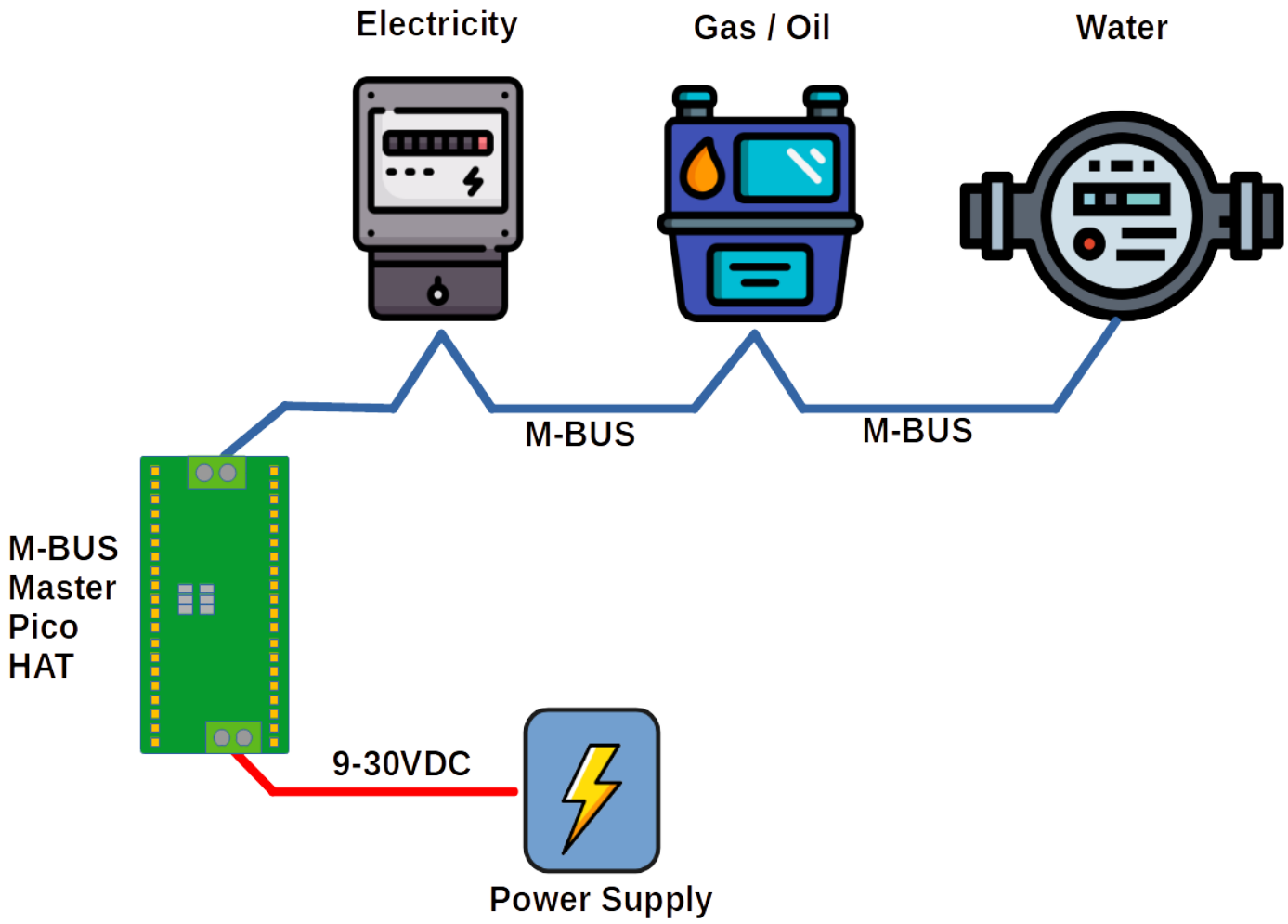
Applications:

- Smart home
- Smart metering
- Green (solar) energy monitoring
- Remote sensor reading
- Remote control via M-Bus



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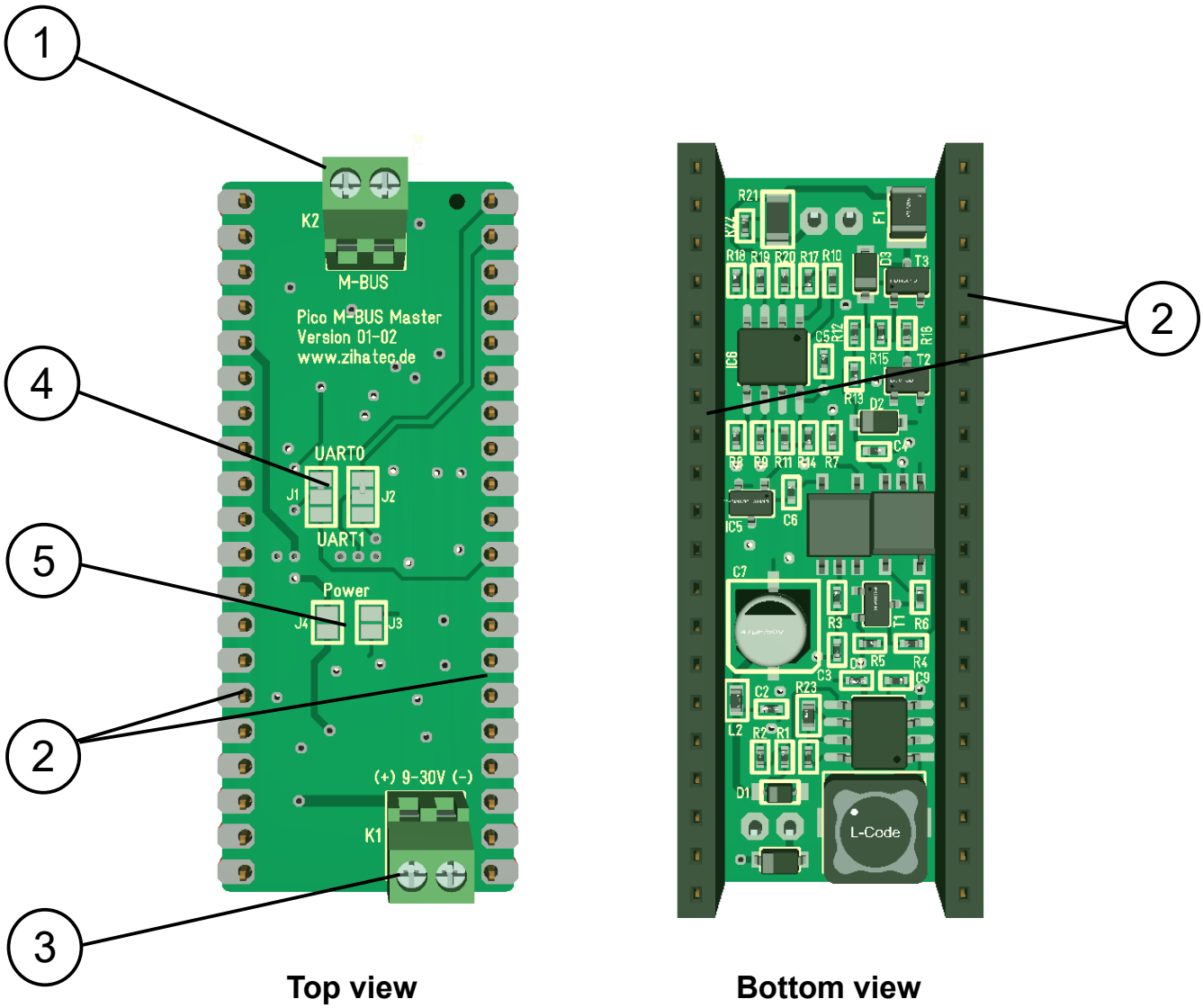
Control Elements:



Top view **Bottom view**

① M-Bus terminal
② headers for Raspberry Pi Pico boards
③ terminal for power supply
④ soldering jumpers for UART selection
⑤ soldering jumpers for power selection