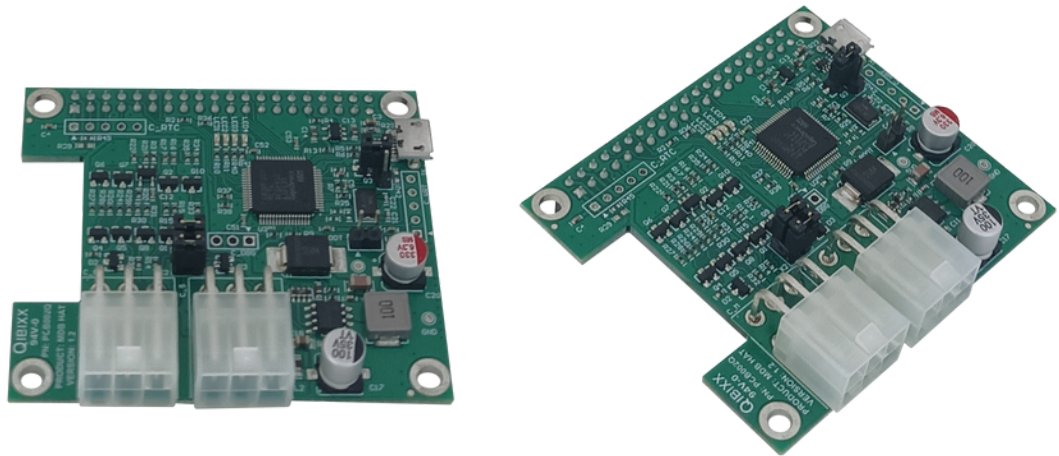


PRODUCT BRIEF

Presentation

The MDB Pi Hat is the first generation of Qibixx MDB to Serial Adaptor with a Raspberry PiForm Factor, and is now also connectable through USB, to free up the 40 pin header for other applications, if necessary. It can be used as a Master/Vending Machine Controller (VMC) or a Slave in the Multi Drop Bus (MDB). These features allow to implement a custom VMC, simulate cashless devices and virtually any application that needs to communicate with the MDB bus.



Features

- High level functional interface for cashless device implementations;
- Independent VMC and Peripheral interfaces;
- Easy jumper configuration to select power supply to the host (Raspberry Pi or other) and MDB operating mode;
- Firmware update capable;
- Universal MDB Interface in Pi Hat form factor;
- USB Optional connection, configured with a Jumper;
- USB compatible with most common Operating Systems (macOS, Linux, Windows);
- Precise, time-stamped sniffing from MDB bus;
- High-level, easy to implement serial interface protocol;
- 2 years warranty;

MDB PI HAT USB

TECHNICAL SPECIFICATIONS

Interfaces

USB Connector
Pi HAT GPIO Connector
2x MDB Connectors

CPU

GD32

Power Requirements

3.3 Vdc if supplied from the 40 Pin Header Connector
20 .. 42,5 Vdc from the MDB Bus as defined in the MDB Protocol Specification.
5 Vdc if supplied from USB

User Interface

4x LED Status (TX & RX)

Measurement/Mechanics

63mm x 56mm x 20mm

Weight

25g

Warranty

2 years

ENVIRONMENTAL

Operating Environment

0°C to + 50° / 32 to 122°F environmental
0 - 70% relative humidity, non-condensing

Storage Conditions

-20°C to + 70° / -4 to 158°F
0 - 70% relative humidity, non-condensing

CERTIFICATIONS

RoHS

ORDERING INFORMATION

ORDER NUMBER P0046Q

For commercial related questions (distributors contacts, price list, business opportunities) please contact sales@qiba.pt

For technical inquiries (problem reports, request for documentation, etc.) please contact info@qiba.pt