



MDB PI HAT

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**PRODUCT  
BRIEF**

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AUGUST • 2019

# MDB PI HAT

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## Summary:

- Universal MDB Interface in Pi Hat form factor;
  - Serial and SPI host interface capabilities;
  - MDB Master and MDB Slave support;
  - Precise, time-stamped sniffing from MDB bus;
  - 2 years warranty;
  - Developed in Switzerland, manufactured in the EU;
  - Highlevel, easy to implement serial interface protocol;
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The Qibixx MDB PI Hat is a reliable, universal MDB Interface which can operate in MDB master as well as MDB peripheral roles. It directly plugs onto Raspberry Pi compatible embedded computers with 40 pin 'HAT' connector. The device supports both serial as well as spi connections to the host. Firmware update from the host under full software control is possible. The interface can be used for Master, Peripheral, Sniffing and combined applications.

Thanks to a message buffering concept, the integration with software on the connected computer is easy to achieve and critical timing of the MDB standard is resolved.

A built-in 15W power supply can be used to power the host (Pi) and peripherals from the MDB bus power. This function can be disabled.

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## Technical Specifications:

- Serial and SPI interfaces for data Exchange with Pi;
- Standard MDB Connector, Master and Slave message queueing, local Ack handling (slave);
- No power supply necessary (Pi powered);
- Precision sniffing capability with timestamps;
- Standard Pi Hat dimensions;
- 2 LED function indicators;
- Firmware update capable (from Pi);
- Operation: 0° to +50°C, Storage -20... +70°C;
- 0-70% relative humidity, non-condensing;
- Power Supply 5V, 3A from MDB bus to Pi;
- Power supply can be disabled;

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## Software Options:

- Cashless Device Implementation;
- Sniffer Software (MDB Toolchest);

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## Ordering Information

Worldwide Shipping; Shipped from Portugal by our partner DHL; For any more questions or information please contact us at **[tech@qiba.pt](mailto:tech@qiba.pt)**

For questions regarding distribution, contacts, price lists or business opportunities please contact **[sales@qiba.pt](mailto:sales@qiba.pt)**

One of the many uses for your Pi Hat - Follow the QR Code at the bottom of the page or go to [qiba.pt](http://qiba.pt) for even more examples on how to make the most of your Pi Hat;



Qibixx's MDB Pi Hat lets you connect MDB payment peripherals to your computer/Raspberry; This way, you can use your computer or Raspberry Pi to accept payments using standard peripherals. Pi Hat can also simulate a cashless device (Case #2) so it makes receiving cashless payments (Credit Card reader, PayPal, Crypto-Currency, QR Codes, etc) easy.

## CONNECT YOUR PAYMENT PERIPHERALS TO YOUR RASPBERRY PI

CASE 1 - MASTER MODE

RASPBERRY PI  
+ PI HAT



MDB-BUS



Easily connect your payments peripherals to your Raspberry Pi using the MDB Pi Hat.  
The Pi Hat can also serve as a power supply for the Raspberry Pi.

