

RFID-HAT for Raspberry Pi

Art. No.: 22003468

The Metratec RFID-HAT allows you to connect our UHF RFID modules directly to a Raspberry Pi single-board computer without the need for any additional components. Testing our UHF RFID was never easier and in some applications, this might even be your new reader in production.

The add-on board has space to mount any of the Metratec DwarfG2 UHF RFID modules (Mini, Standard, and XR) to give you the output power/read range your project needs from 50cm to up to 5m. The integrated 4x multiplexer allows you to connect four MMCX cables to build a small and cost-efficient “Smart Reader”.

The board has a 5-30V power supply that can power the RFID module as well as the embedded PC at the bottom from almost any source. The industrial inputs and outputs can be used to trigger the scan process and control external equipment like LEDs and even small motors.

Everything is rounded off by Metratec's great variety of software integration kits for Python, Java, C#, and even ANSI-C. A getting-started guide will help you read your first UHF tags in minutes.



- Compatible with Raspberry Pi header
- Integrated 4x multiplexer
- Available with three different RFID modules
- Industrial IOs and PSU

Technical Specification

Operating Principle	RFID module adapter board for Raspberry Pi and similar
RFID Module	Available in three versions with different output power/range
Antenna Connector	4x MMCX (integrated multiplexer)
Inputs	Optically isolated 24V inputs
Outputs	High-side switch with up to 1.5A output (PSU voltage)
Communication	Serial Interface / UART (with configurable Baud rate)
Operating Voltage	5-30V DC (supplies power to RFID module and Raspberry Pi)
Power Consumption	Depending on RFID module and Embedded Board,
Temperature Range	-20 °C to +70 °C
Dimensions	85 x 56 x 15 mm

You can use the RFID-HAT with our DwarfG2-Mini, the DwarfG2 or the DwarfG2-XR UHF module. Just specify which version you need when ordering from us or our partners. Optionally, you can also use the product with our PLRM high-power module. In that case the integrated multiplexer is not used.

About Metratec

Metratec is a manufacturer of RF electronics specialized in wireless “Identification” (RFID) and “Localization” (RTLS). We serve a variety of markets from the manufacturing industry and logistics to vending machines and medical devices. Our customers include OEM customers, IoT system integrators and research facilities worldwide.

EU Office

Metratec GmbH
Niels-Bohr-Str. 5
39106 Magdeburg
Germany
+49 (0)391 2519 06-00
info@metratec.com

US Office

Metratec USA
6 Liberty Square #2073
02109 Boston, MA
United States
+1 (857) 799-3795
us@metratec.com