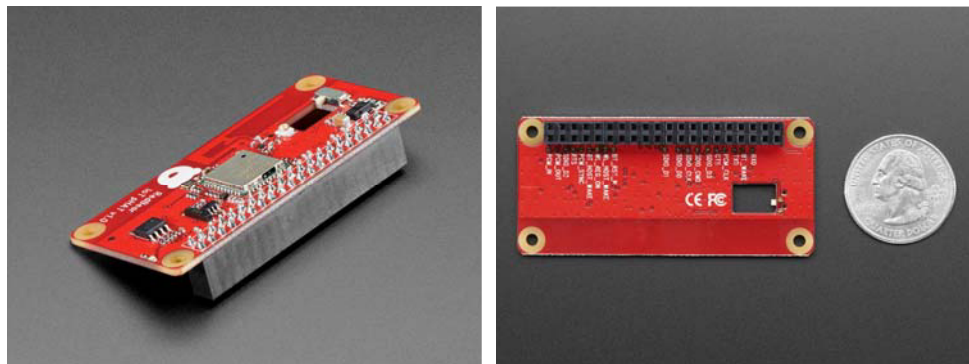# Red Bear IoT pHAT for Raspberry Pi - WiFi + BTLE

PRODUCT ID: 3283

- # Description

So you've got your Pi 3 with its built-in wireless LAN and Bluetooth, but what about your Pi Zero? Say hello to the **IoT pHAT** from Red Bear! This Zero-size board provides WiFi (802.11bgn / 2.4GHz) and Bluetooth (v4.1 / BTLE) connectivity direct from the GPIO header. You don't need to use a dongle plugged into the Pi Zero's solitary data micro-USB port via a USB OTG adapter. Just snap it on top of a Raspberry Pi Zero (or really, any Raspberry Pi with a 2x20 connector)!

The IoT pHAT provides a neat and convenient way to add WiFi and Bluetooth connectivity to your Pi Zero, while freeing up the USB data port. Using the same wireless radio chip as the Pi 3 results in reliable signal strength and quality via an on-board or optional external antenna.

As with other pHATs, it works with all of the 40-pin Raspberry Pi variants - 2/B+/A+/Zero - but using it with the Pi Zero makes for a super-tiny package.

Features:

- o AMPAK AP6212A Wireless Module (Broadcom BCM43438 A1 chip inside)
  - WiFi (802.11bgn / 2.4GHz)
  - Bluetooth (4.1) and BLE support
- o Single antenna for concurrent WiFi and Bluetooth operations
  - Onboard PCB antenna
  - External antenna connector
  - Antenna switch for extenal antenna
- o 32 Kbit (4 KByte) EEPROM for DTOverlay configuration
- o 40-pin connector
  - WiFi: SDIO v2.0 - up to 20 MHz clock rate
  - Bluetooth: UART (up to 4 Mbps)
- o FCC/CE certified
- o **Pre-soldered with 40-pin female header, no assembly required!**

Pi Zero not included!

• **Technical Details**

For technical inquiries, please visit Red Bear's support forum.

If you think you have a **faulty unit**, kindly open a support ticket and Red Bear staffs will follow up with you.

Product Dimensions: 65.0mm x 30.0mm x 11.0mm / 2.6" x 1.2" x 0.4"

Product Weight: 10.5g / 0.4oz