

# Puck.js

ESP002



A Smart Bluetooth Button that can be programmed wirelessly, in JavaScript!

Puck.js is an intelligent Bluetooth button. With the Espruino JavaScript interpreter on its internal ARM microcontroller, software can be uploaded, debugged and modified wirelessly from any modern computer or phone, making development of embedded devices significantly easier. It has built-in sensors, lights, infrared transmitter, GPIO, and can even control other Bluetooth LE devices.

## **What makes it special?**

You can get your own code working on Puck.js just a few seconds after getting it out of the box. With Web Bluetooth you don't need to install any software on your computer - just go to <https://www.espruino.com/ide/> with a Web Bluetooth capable browser and you can connect instantly and start writing code. There's even a graphical programming language if you're not happy writing JavaScript.

## Features

- Bluetooth Low Energy
- Espruino JavaScript interpreter pre-installed
- nRF52832 SoC - 64MHz Cortex M4, 64kB RAM, 512kB Flash
- 8 x 0.1" GPIO (capable of PWM, SPI, I2C, UART, Analog Input)
- 9 x SMD GPIO (capable of PWM, SPI, I2C, UART)
- ABS plastic rear case with lanyard mount
- Silicone cover with tactile button
- MAG3110 Magnetometer
- IR Transmitter
- Built in thermometer, light and battery level sensors
- Red, Green and Blue LEDs
- NFC tag programmable from JavaScript
- Pin capable of capacitive sensing
- Weight: 14g in plastic case, 20g in packaging
- Dimensions of plastic case: 36mm dia, 12.5mm thick
- Dimensions of bare PCB: 29mm dia, 9mm thick