

# Specifications

## Network

The protocol, and by extension, the bridge device, was designed to be transport-agnostic. Information can be processed in parallel or in serial, meaning that anything from a humble UART connection to as high-level as an HTTP wrapper. In its current state, using the ports on the devkit, bridge device driver code for a specific described device can be directly flashed to the PROM of the device, but elements of the protocol allow for the enabling of remote code uploading in low-security environments. By default the device is designed to be connect to a local hotspot, allowing protocol-adherent one-time wireless configuration over TCP, uploading into non-volatile memory, which could be used to have the device operate in bluetooth mode, or serial.