



Air Giants Limited Manual for brain_on_a_board

<https://wiki.airgiants.co.uk/>

Printed on 2026/02/11 03:15

Table of Contents

Brain On a Board (BOB) 5

Components 5

Brain On a Board (BOB)

BOB is a test rig comprised of the components of an [Unfurl Fern](#). It was built by samw in feb-mar 2023.

Components

- A mikrotik routerboard 5 port router/access point
- 4x [Unfurl Nodes](#)
- 2x Beaglebones
 - One is the standard unfurl beaglebone
 - the second “beaglebob” is used for bob-specific stuff, like running a separate mqtt server and connecting to nodes via esp programmers over usb.
- A length of LED strip
- 2x espprog usb programmers
 - Can be connected to any of the nodes for flashing/serial debug
 - connected to beaglebob via a USB hub
- 1x 24v PSU for the nodes and router
- 1x 12v PSU for the LED strip

From:

<https://wiki.airgiants.co.uk/> - **Air Giants Wiki**

Permanent link:

https://wiki.airgiants.co.uk/doku.php?id=brain_on_a_board&rev=1677858996

Last update: **2023/03/03 15:56**

