

Spectre RT3G router and Wzzard Edge Node device

Use the Spectre router and Wzzard device(s) to connect to the IBM Internet of Things Cloud. Then you can visualise the data generated by any Wzzard connected sensors on the Quickstart page. This demo uses a thermocoil sensor attached to a Wzzard Edge Node to generate the temperature data to be sent to the cloud.

Ingredients

Hardware Requirements

- Spectre RT3G router – Part No. (RT3G-350)
- Wzzard Edge Node device with internal Thermocoil – Part No. (WSD1CTJ)

Prepare

Get your device ready

- Connect the Spectre router to the internet (can use ethernet connection or cellular network).
- Power up the Wzzard Edge Node device and attach the thermocoil to the I/O.

Connect (QuickStart)

Internet of Things Cloud QuickStart connection

- Download the demo module from GitHub:
 1. wget <https://github.com/bb-elec/iot-SpectreWzzard/archive/master.zip>
 2. unzip master.zip
- Add the module to the router through the web interface.
 1. Browse to 192.168.1.1 (the standard ip address of the router) and the web interface will load.
 2. On the side bar, under 'Customization', there will be a link to the 'User modules' settings page. Click this.
 3. On the page there will be an option to browse your file system for a user module. Find the user module you downloaded – `iot-SpectreWzzard-master/IBM_Message_Router/IBM_Message_Router.tgz`
 4. Click the 'Add or Update' button and wait for the confirmation screen to appear.
 5. The new user module should appear in the list as 'IBM Message Router'. Click this and you will be on the web interface for the module.
- Check that the module is running.
 1. The module should start automatically but if the router fails to connect to the IBM site for any reason it will need restarting which can be done in the web interface for the module.
 2. The system log will also show whether the module stopped running with a message explaining why.

Visualise

Real-time visualisation of device data.

- Find the MAC address of the Spectre router on the 'General' page of the router interface.
- Browse to <http://quickstart.internetofthings.ibmcloud.com/> and enter the MAC address of the router into the text box to view the data.