Article
Tom Fitzgibbon · Mar 4, 2016   2m read

RESTful API Call From Cache to Particle.io Electron

RESTful API Call From Cache to Particle.io Electron

Tom Fitzgibbon ¦ Multidata ¦ 212-967-6700 x537 ¦ tom@mul.com

Summary: Simple Blink Tutorial for Particle.io Electron Device from Cache

Electron device is a tiny ARM processor ($40-$60) that connects to Particle's world wide leased 2G/3G network (about $3/mo) and runs off an included LiPo battery. Using Cache's %Net.HttpRequest you can send/receive data, control hardware and read sensors.

Step by Step (about 1 hour)

1) Get the Electron from store.particle.io.

2) Set up the Electron from setup.particle.io.

3) Install an LED and resistor from setup instructions.

4) Test with build.particle.io using their code for "Web-Connected LED". You get your access token from Settings and device number from Devices in Build and substitute in their code. Edit the code to make sure you can light the LED from a browser before moving to step 5.

5) Setup an SSL configuration in your Cache via the SMP (System Management Portal) in Security/SSLTLS configurations. Just create a new SSLTLS configuration by entering a name (like TLS) and saving.

6) Run the following Cache code from an internet connected Mac or PC after substituting your access token, device number and on/off in args. Do ^LED1 from Cache terminal.

```
LED1 ;simple blink test with Cache
 Set httprequest=##class(%Net.HttpRequest).%New()
 Set httprequest.SSLConfiguration="TLS"
 Set httprequest.Https=1
 Set httprequest.Server="api.particle.io"
 Do httprequest.InsertFormData("access_token","your access token here")
 Do httprequest.InsertFormData("args","on")
 Do httprequest.Post("/v1/your device number here/led")
 Do httprequest.HttpResponse.OutputToDevice()
 q
```

7) You can also test from a Linux Curl command:
curl https://api.particle.io/v1/devices/your device number/led -d access_token=your access_token -d args=on

#Code Snippet #Frontend #REST API #Caché