

SPI on accelerometer

Connections:

For the SPI connection I connected the Vin to 3.3V, Gnd to Gnd, CS to Pin 15, SDA to MOSI, SDO to MISO and SCL to SCK. MOSI is master output, MISO is master input on the feather huzzah esp8266.

I first initialised all the necessary registers. The SPI worked as follows:

While writing:

If I needed to write anything then first I need to activate the accelerometer using CS pin, then I need to first give the address of the register that I need to write to and then write the value on the MISO pin in order to initialise that register.

While reading:

If I wanted to read anything from any register, first I need to activate the accelerometer using CS pin, then I need to write the address of the register that needed to read from with a 1 at the MSB bit, so for example, to read from register 32 I had to write B2 in hex. Then I can simply read from MISO pin.