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LCD connections: 3.3V

|  |  |  |
| --- | --- | --- |
| **LCD** | **Huzzah** | **Notes** |
| MISO | 12 | Must use this – per spec below |
| MOSI | 13 | “” |
| SCLK | 14 (SCL) | “” |
| CS | 15 | Can change this |
| SD\_CS | 0 | For SD card – can change – to test |
| INT | 1 | Can change |
| RST | 2 | Can change |
|  |  |  |
| **RTC - 3.3v or 5v. Use 3.3** | **Huzzah** |  |
| SCL | 5 |  |
| SDA | 4 |  |
| GND | GND |  |
| VCC | 3v3 | Use power module. |
|  |  |  |
|  |  |  |

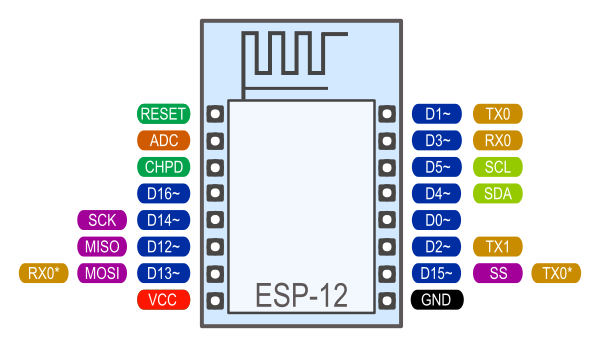
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https://learn.sparkfun.com/tutorials/esp8266-thing-hookup-guide/using-the-arduino-addon

* **SPI** – The ESP8266 Thing can control an SPI bus using function calls made standard by the [Arduino SPI library](http://www.arduino.cc/en/reference/SPI).
  + An additional function to set the frequency – SPI.setFrequency([frequency]) – is added. You may need to call that in your setup to slow the clock down from its default value. For example,SPI.setFrequency(1000000) will set the SPI clock to 1MHz.
  + The MISO, MOSI, and SCLK SPI pins are hard-coded and can’t be moved, they are:

|  |  |
| --- | --- |
| **Pin Number** | **SPI Function** |
| 12 | MISO |
| 13 | MOSI |
| 14 (SCL) | SCLK |
| 15 | CS |

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SS is also the same as CS (Chip Select). This value can be changed in code.