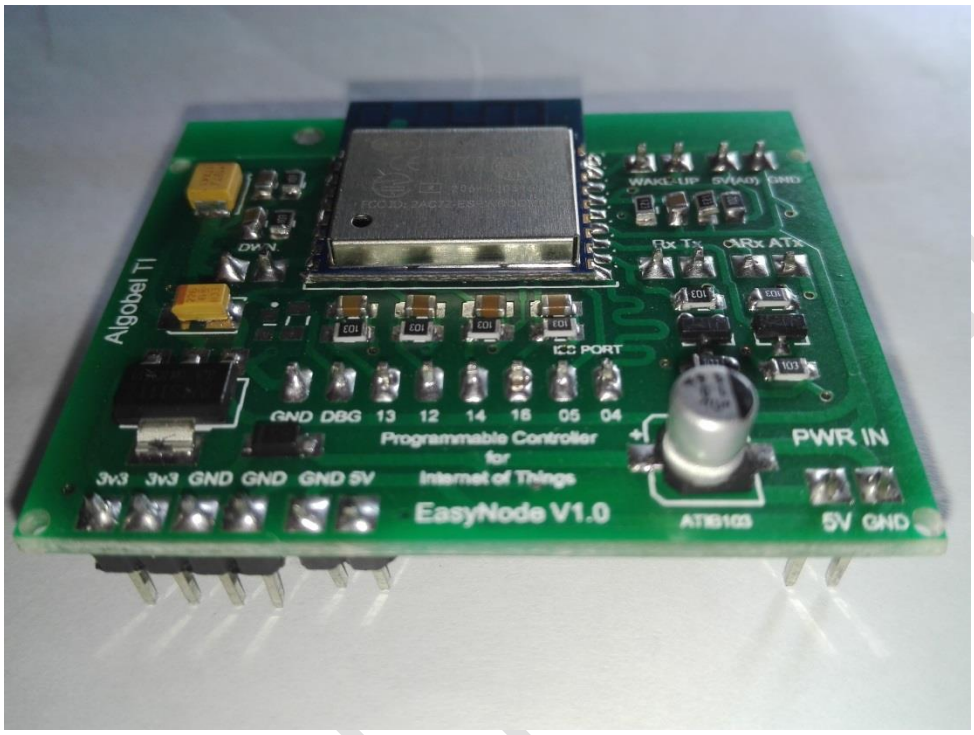
EasyNode (IoT)



Add-ons

1. Industrially reputed chip- and certified with Certifications of FCC ID:2AC7Z-ESPWROOM02

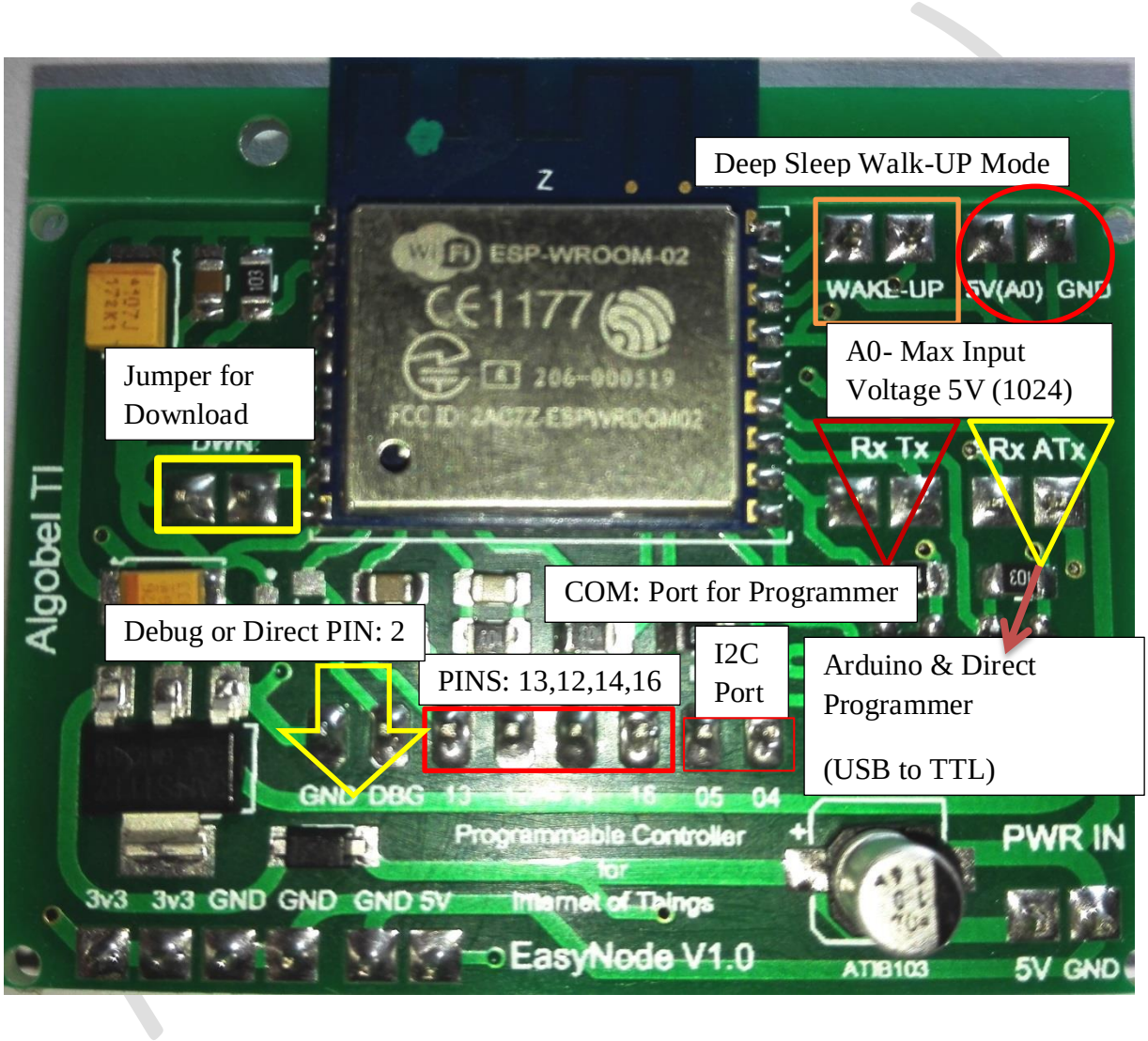
   Support many programming language as available in the industry: RTOS/NON RTOS SDK 's: Arduino IDE, Micropython, C, Mongoose-OS, JavaScrip

2. Support for all kind of IoT protocols; MQTT, aREST, HTTP, Webhook, based on TCP/UDP etc..
3. Hardware Protocols: UART, SPI, I2C, OneWire
4. Continually updating/improving (Application evaluation with Espressif features and SDK)
5. Support up to 10 years
6. Perfect resource management and best price

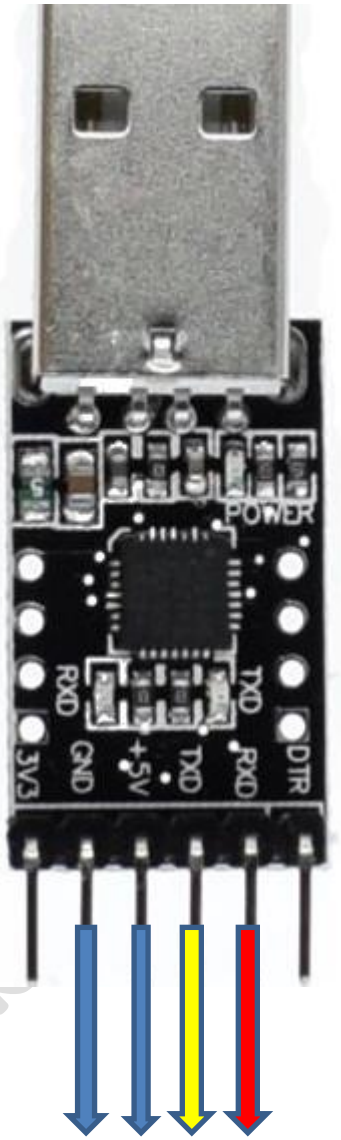
Outcomes

1. Perfect interface for the external devices
2. Minimizing and controlling desired level of voltage from external devices
3. Dedicated impedance balanced port for I2C devices
4. Arduino compatible Serial communications port (Hardware Serial or Software Serial) and Programmer

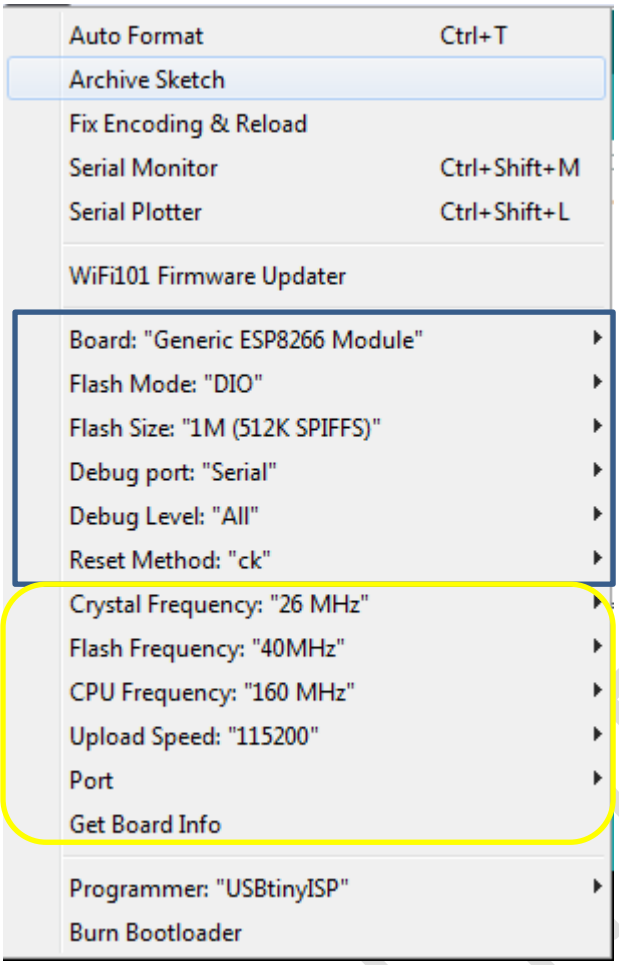
5. Inbuilt Logic level converter for devices which support 5V logic level interface
6. "All in one programmer" compatible two programmer ports
7. Power feed extended - Power saving - Long run mode "Walk-up" features
8. Directly access to the Arduino and 5V compatible Analog (A0) interface
9. Analog grounding for minimising of analog noises
10. Polarity protection "PWR IN" mode
11. Minimum ripple and highly stable inbuilt DC voltage smooth filtering
12. Steady and smooth current feeding additional 3.3V/500mA for external devices
13. Extended 5V and 3.3V DC ports for external sensors



PROGRAM UPLOADING PROCEDURE



1. Connect 5V and GND to PWR IN (EASYNODE)
2. ARx to TXD(USB-TTL) and ATx to RXD(USB-TTL)
3. "Jumper for Download" (EasyNode) bridge with connector (Only for program upload) (Normal operation - remove jumper wire)
4. Configure Arduino IDE as follows in Board Manager



BOARD INPUTS/ OUTPUTS

1. 3.3V is the "maximum" inputs voltage for inputs and outputs (PINS: 13,12,14,16, 5,4,2)
2. Analog pin can connect 0 – 5V (PIN : A0) use Analog ground on EasyNode
3. Deep-Sleep (Power saving) : (Bridge the connection – Use Jumper wire) (do not use PIN: 16 while using Deep-Sleep {Maximum time for re connecting to router is "1 second"
4. Extra 3.3v two ports for sensors and one 5V port for sensor or extended up to 500mA.
5. I2C port for display and I2C interface (Preciously impedance matched to any I2C devices/Interfaces) or can use for any other purpose as PIN :5 and PIN4
6. Debug port ("DBG")