

Programming the ESP8266 with the Arduino IDE

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hcku typographybreakWord“>You could also use a UARTbee or any UART to USB device</td>
</tr></tbody></table></td> <td class=„hcku typographybodyL times“>&#215;</td> <td
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class=„hckuipographybodyL“>Jumper wires (generic)</td> </tr><tr><td class=„hckuipographybodyS hckuipographypebble hckuipographybreakWord“/></td></tr></tbody></table></td> <td class=„hckuipographybodyL times“>×</td> <td class=„hckuipographybodyL quantity“>1</td> <td class=„actions“> </td> </tr><tr class=„head“><td colspan=„6“> <h3 class=„hckuipographyh3“>Software apps and online services</h3> </td> </tr><tr><td class=„part-img“></td> <td> <table><tbody><tr><td class=„hckuipographybodyL“><a data-ha=„{"eventName":"Clicked link","customProps":{"value":"Arduino IDE","href":"/arduino/products/arduino-ide","type":"part","location":"things"},"clickOpts":{"delayRedirect":true}}“ class=„hckuipographylinkBlue“ href=„https://www.hackster.io/arduino/products/arduino-ide“>Arduino IDE</td> </tr><tr><td class=„hckuipographybodyS hckuipographypebble hckuipographybreakWord“>version 1.6.6 or higher</td> </tr></tbody></table></td> <td colspan=„2“/> <td class=„actions“><em class=„hckuipographyiconWrapper“><svg class=„hckuipographyicon hckuipographyicon16“><use xlink:href=„#svg-external-link“/></svg></td> </tr></tbody></table></div> </section> <section id=„story“> <div class=„project-story collapsible-section collapsed hljs-active hljs-monokai“ itemprop=„text“> <p class=„hckuipographybodyL“>The ESP8266 is a low-cost WiFi module built by Espressif Systems. Its popularity has been growing among the hardware community thanks to it's nice features and stability. It can even be easily programmed using your Arduino IDE.</p> <p class=„hckuipographybodyL“>In this post, we'll learn how to program your ESP8266 using an UARTbee or Arduino UNO, and the Arduino IDE.</p> <h3 class=„hckuipographyh3 title-with-anchor“ id=„toc-wire-up-0“>Wire up!</h3> <p class=„hckuipographybodyL“>First we'll need to identify the pinout of ESP8266. </p> <div class=„image_carouselcontainerhMjxn image_carouselwrapper102VA image_carouselscrollContainer3mmPE image_carouselimageContainer22Wpm image_carouselimageWrapper39AG2“ data-hypernova-key=„ImageCarousel“ data-hypernova-id=„35c15af2-c488-4da9-915c-1709592da0b8“></div> <p class=„hckuipographybodyL“>To set the ESP8266 in programming mode you need to connect its wires like this:</p> <p class=„hckuipographybodyL“>ESP8266 UARTbee Arduino UNO</p> <ul class=„hckuipographybodyL“>RXD TXD <ul class=„hckuipographybodyL“>RX GPIO0 <ul class=„hckuipographybodyL“>GND GND <ul class=„hckuipographybodyL“>GPIO2 — <ul class=„hckuipographybodyL“>—— GND <ul class=„hckuipographybodyL“>GND GND <ul class=„hckuipographybodyL“>VCC 3.3V <ul class=„hckuipographybodyL“>3.3V RST <ul class=„hckuipographybodyL“>—— — <ul class=„hckuipographybodyL“>CH_PD 3.3V

class=„hcku typographybodyL“>3.3V TXD <ul class=„hcku typographybodyL“>RXD TX <p class=„hcku typographybodyL“>Note: If you are using an Arduino UNO you will need to set Arduino RST to GND. Please be careful with the VCC of the ESP8266, it works only with a 3.3V supply.</p> <h3 class=„hcku typographyh3 title-with-anchor“ id=„toc-setup-the-arduino-ide-1“>Setup the Arduino IDE</h3> <ul class=„hcku typographybodyL“>Open you IDE and click on „File -> Preferences“. <ul class=„hcku typographybodyL“>In „Additional Boards Manager URLs“ add this line and click on „OK“: http://arduino.esp8266.com/stable/package_esp8266com_index.json <ul class=„hcku typographybodyL“>Go to „Tools -> Board -> Boards Manager“, type „ESP8266“ and install it. <ul class=„hcku typographybodyL“>Go again to „Tools -> Board“ and select „Generic ESP8266 Module“. <h3 class=„hcku typographyh3 title-with-anchor“ id=„toc-flash-your-code-2“>Flash your code!</h3> <p class=„hcku typographybodyL“>Now you're ready to use your ESP8266 as a stand-alone module without needing an external micro-controller. Check out more ESP8266 resources here to learn how to build IoT products and projects using this amazing module. </p> </div> Read more</section> <section id=„team“><div class=„project-section-title“><h2 class=„hcku typographyh2 title-with-anchor“>Credits</h2> </div> </section> <section id=„comments“><div class=„project-section-title“><h2 class=„hcku typographyh2 title-with-anchor“>Comments</h2> </div> </section> </html>

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