

S-March/dEEbugger_PUBLIC

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<html> <h3>

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<svg aria-hidden="true" class="octicon octicon-book" height="16"
version="1.1" viewBox="0 0 16 16" width="16"/>
  README.md
</h3>
<article class="markdown-body entry-content" itemprop="text">
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<p><a href=„<https://gfycat.com/OrneryPlushAbalone>“>The dEEbugger is an ESP8266 based keychain swiss army knife for electronics</p> <p></p> <p>The device was designed with breakouts for the two ADC channels, UART and I2C. It can run off of 5V or 3.3V or USB power. If USB is being used, the 5V and 3.3V pins can be used as outputs.</p> <p></p> <h2><svg aria-hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“ width=„16“/>Oscilloscope</h2> <p>To use the dEEbugger, plug in power and navigate to dEEbugger.local in you browser. If your devices does not support mDNS, you can just navigate to the dEEbugger IP address instead.</p> <p></p> <h4><svg aria-hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“ width=„16“/>Two Channels (ADC and UART Stream)</h4> <p>Chose between multiple inputs for the channels. In the below picture the red is an ADC channel and the blue is a UART stream of numbers.</p> <p></p> <h4><svg aria-hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“ width=„16“/>Peak Detection</h4> <p>The dEEbugger supports real time peak detection as well.</p> <p><a href=„https://github.com/S-March/dEEbugger_PUBLIC/blob/master/Pictures/09.png?raw=true“

target=„_blank“><img
src=„https://github.com/S-March/dEEbugger_PUBLIC/raw/master/Pictures/09.png?raw=true“ alt=„Alt
text“ title=„Peak Detection“/></p> <h2><a id=„user-content-serial-terminal“ class=„anchor“
href=„https://github.com/S-March/dEEbugger_PUBLIC#serial-terminal“ aria-hidden=„true“><svg aria-
hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>Serial Terminal</h2> <h4><a id=„user-content-local-echo“ class=„anchor“
href=„https://github.com/S-March/dEEbugger_PUBLIC#local-echo“ aria-hidden=„true“><svg aria-
hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>Local Echo</h4> <p>In additin to acting as an oscilloscope, the dEEbugger can
act as a „wireless“ serial terminal allowing you to send and receive data over the UART pins through
the web application</p> <p><a
href=„https://github.com/S-March/dEEbugger_PUBLIC/blob/master/Pictures/10.png?raw=true“
target=„_blank“><img
src=„https://github.com/S-March/dEEbugger_PUBLIC/raw/master/Pictures/10.png?raw=true“ alt=„Alt
text“ title=„Local Echo“/></p> <h4><a id=„user-content-terminal-options“ class=„anchor“
href=„https://github.com/S-March/dEEbugger_PUBLIC#terminal-options“ aria-hidden=„true“><svg
aria-hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>Terminal Options</h4> <p>Terminal settings: connect/disconnect button, baud
rate selection, terminal clear button and enable/disable a local echo.</p> <p><a
href=„https://github.com/S-March/dEEbugger_PUBLIC/blob/master/Pictures/11.png?raw=true“
target=„_blank“><img
src=„https://github.com/S-March/dEEbugger_PUBLIC/raw/master/Pictures/11.png?raw=true“ alt=„Alt
text“ title=„Terminal Options“/></p> <h2><a id=„user-content-i2c-controller“ class=„anchor“
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hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>I2C Controller</h2> <h4><a id=„user-content-find-devices“ class=„anchor“
href=„https://github.com/S-March/dEEbugger_PUBLIC#find-devices“ aria-hidden=„true“><svg aria-
hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>Find Devices</h4> <p>When „Find Devices“ button is pressed, a list of all I2C
devices on the bus will be returned.</p> <p><a
href=„https://github.com/S-March/dEEbugger_PUBLIC/blob/master/Pictures/13.png?raw=true“
target=„_blank“><img
src=„https://github.com/S-March/dEEbugger_PUBLIC/raw/master/Pictures/13.png?raw=true“ alt=„Alt
text“ title=„Find Devices“/></p> <h4><a id=„user-content-read-device“ class=„anchor“
href=„https://github.com/S-March/dEEbugger_PUBLIC#read-device“ aria-hidden=„true“><svg aria-
hidden=„true“ class=„octicon octicon-link“ height=„16“ version=„1.1“ viewBox=„0 0 16 16“
width=„16“/>Read Device</h4> <p>When a device is selected, all readable registers will be
returned with their current values.</p> <p><a
href=„https://github.com/S-March/dEEbugger_PUBLIC/blob/master/Pictures/14.png?raw=true“
target=„_blank“><img
src=„https://github.com/S-March/dEEbugger_PUBLIC/raw/master/Pictures/14.png?raw=true“ alt=„Alt
text“ title=„Read Device“/></p> </article> </html>

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