

ESP Easy

First setup

Wifi ssid	ESP_0
Wifi pass	configesp
IP	192.168.4.1

Emergency reset

During power up, if TX & RX lines are tied together.

Device is sending two bytes (115200 speed): 0xAA 0x55 and after 1ms checks if two the same bytes are received, and resets device to factory settings.

Delayed reset

When failed connection tries reach 30, system is performing delayed reset (after 60 seconds).

Function `ESP.reset()` is used.

```
rst cause:2, boot mode:(3,6)
```

rst cause

Number	Description
0	unknown
1	normal boot
2	reset pin
3	software reset
4	watchdog reset

boot mode

the first value respects the pin setup of the Pins 0, 2 and 15.

Number	GPIO15	GPIO0	GPIO2	Mode
0	0V	0V	0V	Not valid
1	0V	0V	3.3V	Uart
2	0V	3.3V	0V	Not valid
3	0V	3.3V	3.3V	Flash
4	3.3V	0V	0V	SDIO
5	3.3V	0V	3.3V	SDIO
6	3.3V	3.3V	0V	SDIO

Number	GPI015	GPI00	GPI02	Mode
7	3.3V	3.3V	3.3V	SDIO

note:

- `number = ((GPI015 << 2) | (GPI00 << 1) | GPI02);`

Serial commands

Maintenance:

command	args	description
Maintenance		
TaskClear	tasknum	
wdconfig	address	<command> <data> Send 2 bytes <command> <data> to I2C device at <address>
wdread	address	
VariableSet	num string	Set user variable <num> to value <string>
build	build_num	Save <build_num>
NoSleep		Disable deepsleep
Reboot		Set pins 0,2 and 15 to input ports and call ESP.reset() -> <code>_real_system_restart_local();</code>
Restart		ESP.restart() -> <code>system_restart()</code> <code>rst cause:2, boot mode:(3,6)</code>
Domoticz old		
DomoticzSend		
DomoticzGet		
Configuration		
WifiSSID	ssid	
WifiKey	key	
WifiScan		
WifiConnect		
WifiDisconnect		
Delay	seconds	reporting interval to <seconds>
Debug	level	
IP	ip address	
Settings		Show short system info (IP address, Build, Unit number, Wifi configuration, Free mem)
Save		Save settings to flash
Load		Load settings form flash
FlashDump		Show info about flash size, used space, etc
Flash		
Erase		Erase flash, disconnect WiFi
Reset		ResetFactory()
flashcheck	start_sector end_sector	

Firmware build

```
git clone https://github.com/esp8266/Arduino.git esp8266
cd esp8266/tools
python get.py

cd ../../
git clone https://github.com/plerup/makeEspArduino.git
cd makeEspArduino
ESP_ROOT=../esp8266 make -f makeEspArduino.mk upload
```

makeEspArduino targets:

- upload: all - build all and use esptool to upload firmware
- clean
- all

From:

<https://niziak.spox.org/wiki/> - niziak.spox.org

Permanent link:

https://niziak.spox.org/wiki/home_automation:esp8266:espeasy

Last update: **2017/05/18 17:05**

