Supported Switch Models:

1 Switch port GPIO2, on is high

Button port GPIO0, action is low

2 Switch port GPIO0, on is low

Button port GPIO2, action is low

Supported services:

GET

* /Switch Returns SwitchData
* /Switch/Setting Returns SettingData
* /Switch/Log?start=nnn&max=nnn Returns 'max' LogData entries (default 25) starting with the given index (default last used)
* /Switch/Upgrade?version=vnn.nn.nn Starts upgrade of the software to the given version
* /Switch/Upgrade?version=vnn.nn.nn&force=true  
  Starts upgrade of the software to the given version ignoring error situations (already that version, to lower version)
* /Switch/Restart Causes a restart of the switch. Necessary after changing LAN settings, Board model or MAC

PUT

* /Switch Payload SetSwitchData Returns SwitchData
* /Switch/Setting Payload SetSettingData Returns SettingData

Note: The switch only listens to port 80 (the default HTTP port).

JSON formats

SwitchData:

{

"result":"OK", If NOK then the rest is not available

"version":"v3.1.0", The version of the software

"idf-version":"v3.2-427-gffa9749d-dirty", The version of the SDK

"date":"May 4 2020", Date of compilation of the software

"name":"Test", Name of the switch

"descr":"Switch for testing", Description of the switch

"model":1 Model of the Switch board

"status":"on", Current switch status

"time-on":1225, Number of seconds the switch is on. When off: 0

"loglevel":1, Logging level. 0 = no logging, 1 = non-persistant logging

"button":"on" Button enabled

}

SettingData:

{

"result":"OK", if NOK then the rest is not available

"ssid":"YourSsid", SSID of your network

"password":"YourPassword", Password for your network

"mac":"00:ff:ff:ff:00:01", MAC of this switch in your network

"name":"Test", Name of the switch

"descr":"Switch for testing", Description of the switch

"model":1 Model of the Switch board

"loglevel":1, Logging level. 0 = no logging, 1 = non-persistant logging, 2 = persistant logging

"button":"on", Button enabled

"auto-off":43200 Interval in seconds after which the switch goes off

"serverip":"192.168.2.99", IP of your upgrade server

"serverport":8080 Port of your upgrade server

}

LogData:

{

"result":"OK", if NOK then the rest is not available

"number":250, Number of log entries (cyclic log)

"current":66, The current (= next to use) entry

"time":"2020-04-19 16:45:29", Time of the request in CET.

"log":[ Log entries

{

"entry":65, Entry index

"action":"GET Switch", Logged action

"time":"2020-04-19 16:41:29", Timestamp of action in CET. Note: If the switch has not yet synchronised time yet this is time relative to 1970-01-01 00:00:00(UTC) -> Unix time start.

"ip":"192.168.2.1" The IP addres that requested the action (0.0.0.0 if initiated internal)

},

.....

]

}

SetSwitchData:

{

"status":"on" To switch on (off to switch off)

}

SetSettingData:

{ Every element is optional. If not present the setting is left unchanged. The sequence is not important.

"ssid":"YourSsid", SSID of your network

"password":"YourPassword", Password for your network

"mac":"00:ff:ff:ff:00:01", MAC of this switch in your network

"name":"Test", Name of the switch

"descr":"Switch for testing", Description of the switch

"model":1 Model of the Switch board

"loglevel":1, Logging level. 0 = no logging, 1 = non-persistant logging, 2 = persistant logging

"button":"on", Button enabled

"auto-off":43200 Interval in seconds after which the switch goes off

"serverip":"192.168.2.99", IP of your upgrade server

"serverport":8080, Port of your upgrade server

"reset":"true" Reset the settings to default. If present all other settings are ignored!

}