

HTTP API for WiiM Mini

1. Introduction

1.1. API format

It supports the https based API.

1.2. Request format

You can send 'HTTPs Get' request to the device, most of the response is in the JSON format.

Request format is https://x.x.x.x/httpapi.asp?command=*****

x.x.x.x is the IP address of the device (Below, we assume the IP of the device is 10.10.10.254)

***** is the actual command.

2. Open API list

2.1. Get device information

Params: getStatusEx

<https://10.10.10.254/httpapi.asp?command=getStatusEx>

JSON response:

```
{  
  "language": "en_us",  
  "ssid": "WiiM Mini-8FA2", // Name of the device
```

```
"hideSSID": "0",

"firmware": "Linkplay.4.6.425351", // firmware version

"build": "release",

"project": "Muzo_Mini",

"priv_prj": "Muzo_Mini",

"Release": "20220805", // data the firmware is released

"FW_Release_version": "", // Reserved

"group": "0", // 0 means it's a master speaker, 1 means a
slave speaker in a group

"wmmr_version": "4.2", // LinkPlay's MRM SDK version,
version 4.2 or above won't work with any version below
4.2

"expired": "0", // Reserved

"internet": "1", // Is it connected to Internet

"uuid": "FF970016A6FE22C1660AB4D8", // The unique ID
of the device

"MAC": "08:E9:F6:8F:8F:A2", // The WiFi MAC address of
the device

"BT_MAC": "08:E9:F6:8F:8F:A3", // The BT MAC address
of the device

"AP_MAC": "0A:E9:F6:8F:8F:A2", // The MAC address of
the AP that the device is connected to

"date": "2022:08:09",

"time": "07:13:16",

"netstat": "2",

"ssid": "4C6966656E674F666666963655F3547", // The AP
```

name in the HEX format

"apcli0": "192.168.4.62", // The IP v4 address of the device

"eth0": "0.0.0.0",

"ETH_MAC": "00:00:00:00:00:00",

"hardware": "ALLWINNER-R328",

"VersionUpdate": "0", // 0: No new version; 1: new version.

"NewVer": "0", // If there's new version, the new firmware version number

"mcu_ver": "0",

"mcu_ver_new": "0",

"update_check_count": "102",

"ra0": "10.10.10.254",

"temp_uuid": "BEDA811FFC2F4D5C",

"cap1": "0x400", // Reserved

"capability": "0x20084000", // Reserved

"languages": "0x1ec",

"prompt_status": "1",

"alexa_ver": "20180604",

"alexa_beta_enable": "1",

"alexa_force_beta_cfg": "1",

"dsp_ver": "0",

```
"streams_all": "0x1edffbfd", // Reserved
"streams": "0x1edffbfd", // Reserved
"region": "unknown",
"volume_control": "0",
"external": "0x0",
"preset_key": "6", // Number of preset keys
"plm_support": "0x300006", // Reserved
"lbc_support": "0", // Reserved
"WifiChannel": "0",
"RSSI": "-30", // WiFi signal strength
"BSSID": "8c:25:05:1c:41:40", // The MAC address of
connected access point
"wlanFreq": "5805",
"wlanDataRate": "390",
"battery": "0",
"battery_percent": "0",
"securemode": "1",
"ota_interface_ver": "2.0",
"upnp_version": "1005",
"upnp_uuid": "uuid:FF970016-A6FE-22C1-660A-
B4D8FF970016",
"uart_pass_port": "0",
"communication_port": "8819",
```

```
"web_firmware_update_hide": "0",

"tidal_version": "2.0",

"service_version": "1.0",

"EQ_support": "Eq10HP_ver_1.0",

"HiFiSRC_version": "1.0",

"power_mode": "-1",

"security": "https\2.0",

"security_version": "3.0",

"security_capabilities": { "ver": "1.0", "aes_ver": "1.0" },

"public_https_version": "1.0",

"privacy_mode": "0",

"DeviceName": "WiiM Mini-8FA2", // The device name

"GroupName": "WiiM Mini-8FA2" // The group name of

the device is belonged to

}
```

2.2 Network

2.2.1 Get the connection status

Params: wlanGetConnectState

<https://10.10.10.254/httpapi.asp?command=wlanGetConnectState>

Note the return result is not in json.

Return string:

Return string	Description
PROCESS	In progress
PAIRFAIL	Wrong password
FAIL	Connect fail
OK	connected

2.3 Playback control

2.3.1 Get the playback status

Params: getPlayerStatus

<https://10.10.10.254/httpapi.asp?command=getPlayerStatus>

JSON response:

```
{  
  "type":"0",  
  "ch":"2",  
  "mode":"10",  
  "loop":"4",  
}
```

```

"eq":"0",

"status":"play",

"curpos":"184919",

"offset_pts":"184919",

"totlen":"0",

"alarmflag":"0",

"plicount":"0",

"plicurr":"0",

"vol":"39",

"mute":"0"

}

```

Description:

Field	Description
type	0: master or standalone device 1: slave
ch	0 stereo, 1 left, 2 right
mode	0 None 1 AirPlay or AirPlay 2 2 3 rd party DLNA 10 ~ 19 Wiimu playlist (10: default wiimu mode; 11 : USB disk playlist 16: TF card play list

	<p>)</p> <p>20 ~ 30 Reserved</p> <p>31 Spotify Connect</p> <p>32 TIDAL Connect</p> <p>40 AUX-In</p> <p>41 BT</p> <p>42 external storage</p> <p>43 Optical-In</p> <p>50 Mirror</p> <p>60 Voice mail</p> <p>99 Slave</p>
loop	<p>Loop mode:</p> <p>0: loop all</p> <p>1: single loop</p> <p>2: shuffle loop</p> <p>3: shuffle, no loop</p> <p>4: no shuffle, no loop</p>
eq	The preset number of the Equalizer
status	<p>"stop"</p> <p>"play"</p> <p>"loading"</p> <p>"pause"</p>

curpos	Position, in ms
offset_pts	
totlen	Duration in ms
alarmflag	
plicount	The total number of tracks in the playlist
plicurr	Current track index
vol	Current volume
mute	Current mute state

2.3.2 Play audio URL

Params: setPlayerCmd:play:url

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:play:url>

Play the URL. URL points to an audio stream address.

Response is always 'OK' now.

2.3.3 Play audio playlist

Params: setPlayerCmd:playlist:url:<index>

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:playlist:url:<index>>

Play the playlist with the URL (URL points to the m3u or ASX playlist link, index is the start index).

Response is always 'OK' now.

http://10.10.10.254/httpapi.asp?command=setPlayerCmd:hex_playlist:url:<index>

Play the URI (URI is the m3u or ASX playlist link, index is the start index), here, url should be hexed (please refer to 1.3)

2.3.4 Pause

Params: setPlayerCmd:pause

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:pause>

2.3.5 Resume

Params: setPlayerCmd:resume

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:resume>

2.3.6 Toggle pause/play

Params: setPlayerCmd:onepause

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:onepause>

If the state is paused, resume it; otherwise, pause it.

2.3.7 Previous

Params: setPlayerCmd:prev

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:prev>

2.3.8 Next

Params: setPlayerCmd:next

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:next>

2.3.9 Seek

Params: setPlayerCmd:seek:position

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:seek:position>

Position is from 0 to duration in second.

2.3.10 Stop

Params: setPlayerCmd:stop

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:stop>

2.3.11 Set volume

Params: setPlayerCmd:vol:value

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:vol:value>

Value can be 0 to 100.

2.3.12 Mute

Params: setPlayerCmd:mute:n

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:mute:n>

Mute: n=1

Unmute: n=0

The slave mute state will be set at the same time when it's in group play.

2.3.13 Loop mode set

Params: setPlayerCmd:loopmode:n

<https://10.10.10.254/httpapi.asp?command=setPlayerCmd:loopmode:n>

n

0	Sequence, no loop
1	Single loop
2	Shuffle loop
-1	Sequence loop

2.4 EQ

2.4.1 Turn on the EQ

Params: EQOn

<https://10.10.10.254/httpapi.asp?command=EQOn>

JSON Response:

{"status":"OK"} or {"status":"Failed"}

2.4.2 Turn off the EQ setting

Params: EQOff

<https://10.10.10.254/httpapi.asp?command=EQOff>

JSON Response:

{"status":"OK"} or {"status":"Failed"}

2.4.3 Check if the EQ is ON or OFF

Params: EQGetStat

<http://10.10.10.254/httpapi.asp?command=EQGetStat>

JSON Response:

{"EQStat":"On"} or {"EQStat":"Off"}

2.4.4 Check all the possible EQ settings

Params: EQGetList

<http://10.10.10.254/httpapi.asp?command=EQGetList>

Response:

["Flat", "Acoustic", "Bass Booster", "Bass Reducer", "Classical", "Dance", "Deep", "Electronic", "Hip-Hop", "Jazz", "Latin", "Loudness", "Lounge", "Piano", "Pop", "R&B", "Rock", "Small Speakers", "Spoken Word", "Treble Booster", "Treble Reducer", "Vocal Booster"]

2.4.5 Set the specific EQ with name

Params: EQLoad

<http://10.10.10.254/httpapi.asp?command=EQLoad:xxx>

JSON Response:

{"status":"OK"} or {"status":"Failed"}

Note: xxx is the one of the name in the list returned by EQGetList, i.e., EQLoad:Flat

2.5 Device control

2.5.1 Reboot

Params: reboot

<http://10.10.10.254/httpapi.asp?command=reboot>

JSON Response:

{"status":"OK"}

2.5.2 Shutdown

Params: setShutdown:sec

http://10.10.10.254/httpapi.asp?command=setShutdown:sec

Shutdown device in sec

sec:

0: shutdown immediately

-1: cancel the previous shutdown timer

JSON Response:

{"status":"OK"} or {"status":"Failed"}

2.5.3 Get the shutdown timer

Params: getShutdown

http://10.10.10.254/httpapi.asp?command=getShutdown

Return the seconds

2.6 Alarm clock

2.6.1 Get network time

If the device has no internet access, you need to sync its time with:

<http://10.10.10.254/httpapi.asp?command=timeSync:YYYYMMDDHHMMSS>

YYYY is year (such as 2015), MM is month (01~12), DD is day (01~31), HH is hour (00~23), MM is minute (00~59), SS is second (00~59)

In UTC

2.6.2 Set Alarm

`http://10.10.10.254/httpapi.asp?command=setAlarmClock:n:trig:op:time[:day][:url]`

n: 0~2, currently support max 3 alarm

trig: the alarm trigger:

0 cancel the alarm, for example: `setAlarmClock:n:0`

1 once, day should be YYYYMMDD

2 every day

3 every week, day should be 2 bytes (00~06), means from Sunday to Saturday.

4 every week, day should be 2 bytes, the bit 0 to bit 6 means the effect, for example, "7F" means every day in week, "01" means only Sunday

5 every month, day should be 2 bytes ("01"~"31")

op: the action

0 shell execute

1 playback or ring

2 stop playback

time: should be HHMMSS, in UTC

day:

if trigger is 0 or 2, no need to set.

if trigger is 1, should be YYYYMMDD (%04d%02d%02d)

if trigger is 3, day should be 2 bytes (00~06), means from Sunday to Saturday.

if trigger is 4, day should be 2 bytes, the bit 0 to bit 6 means the effect, for example, "7F" means every day in week, "01" means only Sunday

if trigger is 5, day should be 2 bytes ("01"~"31")

url: the shell path or playback url, should less than 256 bytes

2.6.3 Get alarm

<http://10.10.10.254/httpapi.asp?command=getAlarmClock:n>

n: 0~2, currently support max 3 alarm

```
{"enable":"1",  
"trigger":"%d",  
"operation":"%d",  
"date":"%02d:%02d:%02d", //if not a "every day" alarm, no this  
"week_day":"%d", //if not a "every week" alarm, no this  
"day":"%02d", //if not a "every month" alarm, no this  
"time":"%02d:02d:%02d",  
"path":"%s"}
```

2.6.4 Stop the current alarm

<http://10.10.10.254/httpapi.asp?command=alarmStop>

2.7 Playback source switch

2.7.1 Switch playback source

<http://10.10.10.254/httpapi.asp?command=setPlayerCmd:switchmode:%s>

the mode can be the text as below:

line-in (it refers to aux-in too)

bluetooth

optical

udisk

wifi