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CUSTOM INSTALLATION NOTE

8500 Balboa Boulevard, Northridge, CA 91329

IP CONTROL INTERFACE AND COMMANDS FOR SMA-8300 & SMA-4750

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Overview

This document describes the remote-control protocol for SMA-8300 and SMA-4750 amplifiers via the NET (Ethernet) interface.

Set-up

Ensure the amplifier Power Mode is set to “Always On” in the SYTEM SETTINGS > POWER MODES menu.

Alternatively, you can use “Signal Sense” Power Mode and enable “Wake on LAN” to power the unit on at system power on and automatically put the amplifier into standby after no audio is present for a set amount of time.

NOTE: IP Control is disabled when the unit is in standby.

Power On using NET:

The SMA amplifiers support the Wake on LAN standard to be switched on through an Ethernet network. We invite you to read the available online documentation on this subject, such as the Wikipedia page http://en.wikipedia.org/wiki/Wake-on-LAN

The MAC address is required for using this functionality. You can find the MAC address of the device displayed on the NETWORK SETTINGS menu from the front panel or in the SETTINGS tab of the web user interface.

NOTE: For Wake on LAN to work, you need to have the automation server and the SMA amplifier on the same sub-network. Typically, this means that the IPv4 addresses of both devices must start with the same three numbers (such as 192.168.0)

Controlling via Network

Communication is via port 8000 on the amplifier's IP address.

Version API

Endpoint: http://<target ip>:8000/version
Returns device info including model, firmware version, MAC address, and serial number.

Example GET request with curl:

curl -XGET http://dfe-5c:8000/version

Example output:


```
{
  "afe_model": 1,
  "afe_revision": 2,
  "device_manufacture_date": "2024-11-28",
  "device_serial": "XX1111-MY1234567",
  "dfe_model": 1,
  "fw_version": "sma-905",
  "m0_version": {
    "amp1": 0,
    "amp2": 0,
    "expected": 163,
    "pmu": 0
  },
  "mac_address": "00:30:d6:3f:7a:2b",
  "system_channels": 8,
  "system_model": 1
}
```

Control API

Endpoint: http://<target ip>:8000/api

Accepts POST requests with JSON payloads.

Example POST request with curl:

curl -XPOST --data-binary @apitest.json http://dfe-5c:8000/api

Successful call will respond with HTTP 200 – OK

Commands

Here is a list of recognized commands. This list is not comprehensive but includes all commands useful for normal use of the SMA-8300 and SMA-4750.

Command 1 - Control output volume

channel: 0 - 7 volume: -80 - 0

```
{
   "command": 1,
   "channel": 3,
   "volume": -20
}
```

Command 4 - Reboot system

```
{
   "command": 4
}
```

Command 13 - Output mute

channel: 0 - 7 mute: true/false

```
{
   "command": 13,
   "channel": 0,
   "mute": true
}
```

Command 17 - input mute

channel: 0 - 15 mute: true/false

```
{
   "command": 17,
   "channel": 0,
   "mute": true
}
```

Command 24 - Enter standby

```
{
   "command": 24
}
```

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Release Notes

20251009

- Initial Production Release