

SMA & SMQ Commands manual

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Introduction

Welcome to the command user manual of the AUDAC SMA & SMQ amplifiers. For more info about the SMA and SMQ amplifiers, see the corresponding user manual. This manual only describes the use of the commands for controlling the amplifiers through RS-232.

Input list

- 1 Input 1
- 2 Input 2
- 3 Input 3 (Only SMQ)
- 4 Input 4 (Only SMQ)

Output list

- 1 Output 1
- 2 Output 2
- 3 Output 3 (Only SMQ)
- 4 Output 4 (Only SMQ)

Using the commands

The SMA and SMQ amplifiers have an RS–232 communication port which can control the standard operation functions of the amplifier as further described in this manual.

It must be configured with 19200 baud, 8 data bits, 1 stop bit, no parity

Command overview

Startsymbol|destination|source|command|argument's|checksum|stopsymbol

Example: Set volume output 1 to –30dB

ASCII: *#IQ001IwebISV01I30IUreturn*

HEX: *237C513030317C5765627C535630317C33307C313262317C0D0A*

Important:

- The address of the SMA or SMQ is fixed at Q001.
- The checksum is CRC–16 excluding the '#'. You can replace the checksum with 'U', this is always accepted as checksum.
- return = 0x0d 0x0a
- source address has a maximum length of 4 characters and cannot contain "I" or "#"

Command flow

- 1) The client sends a command to the SMA or SMQ
- 2) The SMA or SMQ acknowledges the command by returning the same command and a '+' as Argument.
- 3) The SMA or SMQ updates all client's with the new information

All volume and routing settings are saved automatically with every change and will remain when the device is switched off.

SV0x

Set volume of an output to a certain level

Command: SVx, with x the output number whereof the volume should change.

Arguments: Volume in neg dB, 0 is maximum volume, 70 is minimum volume

Example

Set volume of output 2 to -40dB

Command #IQ001IwebISV02I40IUreturn

Answer #IwebIQ001ISV02I+IUreturn

Update #IALLIQ001IV02I40I7378Ireturn

SVU0x

Set volume with 3dB up for a certain output

Command: SVU0x, with x the output number whereof the volume should increase.

Arguments: 0 (none)

Example

Current is Volume -30dB, set volume up with 3dB for output 1

Command #IQ001IwebISVU01I0IUreturn

Answer #IwebIQ001ISVU01I+IUreturn

Update #IALLIQ001IV01I27IUreturn

SVD0x

Set volume with 3dB down for a certain output

Command: SVD0x, with x the output number whereof the volume should decrease.

Arguments: 0 (none)

Example

Current volume is -27dB, set volume down with 3dB for output 1

Command #IQ001IwebISVD01I0IUreturn

Answer #IwebIQ001ISVD01I+IUreturn

Update #IALLIQ001IV01I30IUreturn

SR0x

Set routing for an output (select input)

Command: SR0x, with x the output where the routing (input) should change for.

Arguments: Input numbers 1 to 4 (3 and 4 only for SMQ)

Example

Select input 3 for output 1

Command #IQ001IwebISR01I3IUreturn

Answer #IwebIQ001ISR01I+IUreturn

Update #IALLIQ001IR01I3I3dc5Ireturn

SRU0x

Set routing up for an output

Command: SRU0x, with x the output where the routing (input) should increase for
Arguments: 0 (none)

Example

Increase routing for output 1 (current is selected is input 1 which changes to input 2)

```
Command #IQ001IwebISRU01I0IUreturn
Answer #IwebIQ001ISRU01+IUreturn
Update #IALLIQ001IR01I2IUreturn
```

SRD0x

Set routing down for an output

Command: SRD0x, with x the output where the routing (input) should decrease for
Arguments: 0 (none)

Example

Decrease routing for output 1 (current is selected is input 2 which changes to input 1)

```
Command #IQ001IwebISRD01I0IU Ireturn
Answer #IwebIQ001ISRD01+IU Ireturn
Update #IALLIQ001IR01I1IU Ireturn
```

SM0x

Enable / disable mute for a certain output

Command: SM0x, with x the output for which the mute status should change.
Arguments: 0 (disable mute) or 1 (enable mute)

Example

Enable mute for output 1

```
Command #IQ001IwebISM01I1IUreturn
Answer #IwebIQ001ISM01+IUreturn
Update #IALLIQ001IM01I1I32c6Ireturn
```

GVOx

Get volume info for a certain output

Command: GVOx, with x the number of the output

Arguments: 0 (none)

Example

Get volume info for output 1

Command #IQ001IwebI GVO1I0IUIreturn

Answer #IwebIQ001I VO1I20IUIreturn

GROx

Get routing info for a certain output

Command: GROx, with x the number of the output

Arguments: 0 (none)

Example

Get routing info for output 1

Command #IQ001IwebI GRO1I0IUIreturn

Answer #IwebIQ001I R01I3IUIreturn

GMOx

Get mute info for a certain output

Command: GMOx, with x the number of the output

Arguments: 0 (none)

Example

Get mute info for output 1

Command #IQ001IwebI GM01I0IUIreturn

Answer #IwebIQ001I M01I0IUIreturn

GTE

Get temperature info for all outputs

Command: GTE

Arguments: 0 (none)

Example

Get temperature for all outputs

Command #IQ001IwebI GTEI0IUIreturn

Answer #IwebIQ001ITEI36^35^39^42IUIreturn