SMA, SMQ & PMQ 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

0 No input selected 1 Input 1 2 Input 2 3 Input 1+2 4 Input 3 (Only SMQ) 5 Input 4 (Only SMQ) 6 Input 3+4 (Only SMQ)

Dante inputs (optional)

7 Dante 1
8 Dante 2
9 Dante 1+2
10 Dante 3 (Only SMQ)
11 Dante 4 (Only SMQ)
12 Dante 3+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

StartsymbolldestinationIsourceIcommandlargument'sIchecksumIstopsymbol

Example: Set volume output 1 to -30dB

ASCII: #IQ001IwebISV01I30IUIreturn

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 #IQ001IwebISV02I40IUIreturn
Answer #IwebIQ001ISV02I+IUIreturn
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 #IQ001IwebISVU01I0IUIreturn
Answer #IwebIQ001ISVU01I+IUIreturn
Update #IALLIQ001IV01I27IUIreturn

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 #IQ001|web|SVD01|0|Ulreturn
Answer #Iweb|Q001|SVD01|+|Ulreturn
Update #IALL|Q001|V01|30|Ulreturn

SROx

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 6 (3, 4 and 3+4 only for SMQ)

Example

Select input 2 for output 1

Command #IQ001IwebISR01I2IUIreturn
Answer #IwebIQ001ISR01I+IUIreturn
Update #IALLIQ001IR01I2I31eaIreturn



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 #IQ001lweblSRU01l0lUlreturn
Answer #IweblQ001lSRU01l+lUlreturn
Update #IALLIQ001lR01l2lUlreturn

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 #IQ001IwebISRD01I0IUIreturn
Answer #IwebIQ001ISRD01I+IUIreturn
Update #IALLIQ001IR01I1IUIreturn

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 #IQ001IwebISM01I1IUIreturn
Answer #IwebIQ001ISM01I+IUIreturn
Update #IALLIQ001IM01I1I32c6Ireturn

SEQZxly

Set equalizer for an output

Command: SEQZxly, with x the output where the equalizer settings y is applied on.

Arguments: Output numbers from 1 to 4 (1 to 2 in SMA)

Filter parameters y1 from 1 to 7 for filter number, y2 from 0 to 9 for filter

type (DISABLED=0, PEAKING=1, LOWPASS=2, HIGHPASS=3, LINKWITZ_TRANSFORM=4, ALLPASS=5, LOWSHELF=6, HIGHSHELF=7,

FO_LOWPASS=8, FO_HIGHPASS=9, y3 from 10 to 22000 fro frequency, y4 from 1 to 15 for Q factor, y5 from -15 to 15 for boost and y6 is 0 for gain

Example

Set equalizer for output 1 where the first filter is peaking at 1kHz with 3dB boost and Q

factor is 1

Command #IQ001lwebISEQZ01l1^1^1000^1^3^0lUlreturn

Answer #lweblQ001ISEQZ01I+IUIreturn

Update #IALLIF001IEQZ01I1^1^1000^1^3^0IUIreturn

SEQZGxly

Set equalizer gain for an output

Command: SEQZGxly, with x the output where the equalizer gain y is applied on.

Arguments: Output numbers from 1 to 4 (1 to 2 in SMA)

Filter parameters y from -20 to 20 for equalizer gain

Example

Set equalizer gain for output 1 where the gain 3dB boost

Command #IQ001IwebISEQZG01I3IUIreturn
Answer #IwebIQ001ISEQZG01I+IUIreturn
Update #IALLIF001IEQZG01I3IUIreturn

GVOx

Get volume info for a certain output

Command: GV0x, with x the number of the output

Arguments: 0 (none)

Example

Get volume info for output 1

Command #IQ001|web|GV01|0|Ulreturn
Answer #Iweb|Q001|V01|20|Ulreturn

GROX

Get routing info for a certain output

Command: GR0x, with x the number of the output

Arguments: 0 (none)

Example

Get routing info for output 1

Command #IQ001|web|GR01|0|U|return
Answer #Iweb|Q001|R01|3|U|return

GMOx

Get mute info for a certain output

Command: GM0x, with x the number of the output

Arguments: 0 (none)

Example

Get mute info for output 1

Command #IQ001|web|GM01|0|U|return
Answer #Iweb|Q001|M01|0|U|return

GTE

Get temperature info for all outputs

Command: GTE Arguments: 0 (none)

Example

Get temperature for all outputs

Command #IQ001|web|GTE|0|U|return

Answer #IwebIQ001ITEI36^35^39^42IUIreturn