# AMP523/RM523 RS232 Command List

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# Introduction

Welcome to the command user manual of the AUDAC AMP523/RM523 . For more info about the AMP523/RM523 see the AMP523/RM523 manual.

## Input list

1       Line 1
2       Line 2
3       Line 3
4       Line 4
5       WLI–WMI/MIC

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# Using the commands

The AMP523/RM523 has three communication ports which all accept the same commands:

> RS232 port
> RS485 ports
> TCP/IP

The RS232/RS485 ports must be configured with 19200 baud, 8 data bits, 1 stop bit, no parity

The TCP/IP port accepts command's at port 5001. The AMP523/RM523 accepts maximum 3 simultaneous TCP/IP connections.

**Command overview**
> Startsymbol|destination|source|command|argument's|checksum|stopsymbol

> Example: Set volume R001 zone 1 to −30dB
> ASCII          #|R001|F001|SV01|30|58ab|return

**Important**
**– The address of the AMP523/RM523 is fixed at R001.**
**– The checksum is CRC–16 excluding the '#'. You can replace the checksum with 'U',    this is always accepted as checksum.**
**– return = 0x0d 0x0a**

**Command flow**
1) The client sends a command to the AMP523/RM523
2) The AMP523/RM523 acknowledges the command by returning the same command and a '+' as
   Argument.
3) The AMP523/RM523 updates all client's with the new information

All volume, routing and tone settings will be lost if the device is switched off. To keep the changes you must save them with the "SAVE" command. All device settings that are configured through the configuration page of the website are saved with every change automatically.

## SV01

Set output volume to a level
    Command: SV01,
    Arguments: Volume in neg db, 0 is maximum volume, 80 is minimum volume

Example
    Set volume in zone 2 to −40dB
    Command    *#|R001|F001|SV01|30|58ab|return*
    Answer    *#|F001|R001|SV01|+|ead6|return*
    Update    *#|ALL|R001|V01|30|aa95|return*

## SVU01

Set volume up with 3dB
    Command: SVU01,
    Arguments: 0 (none)

Example
    Current is Volume −30db, set volume up with 3dB
    Command    *#|R001|F001|SVU01|0|d6b9|return*
    Answer    *#|F001|R001|SVU01|+|c6c6|return*
    Update    *#|ALL|R001|V01|27|5ac6|return*

## SVD01

Set volume down with 3dB
    Command: SVD01
    Arguments: 0 (none)

Example
    Current volume is −27db, set volume down with 3dB
    Command    *#|R001|F001|SVD01|0|97ba|return*
    Answer    *#|F001|R001|SVD01|+|87c57|return*
    Update    *#|ALL|R001|V01|30|aa95|return*

## SVL

Set volume WLI input
    Command: SVL
    Arguments: Volume in neg db, 0 is maximum volume, 80 is minimum volume

Example
    Set WLI volume to −20 dB
    Command    *#|R001|F001|SVL|20|9f85|return*
    Answer    *#|F001|R001|SVL|+|deed|return*
    Update    *#|ALL|R001|VL|20|20c3|return*

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## SVM

Set volume Mic/WMI input
       Command: SVM
       Arguments: Volume in neg db, 0 is maximum volume, 80 is minimum volume

Example
       Set Mic/WMI volume to −30dB
       Command     *#|R001|F001|SVM|30|9fe9|return*
       Answer       *#|F001|R001|SVM|+|22ec|return*
       Update       *#|ALL|R001|VM|30|20af|return*

## GSA

Get website main screen settings
       Command: GSA
       Arguments: 0 (none)

Example
       Get all settings from main screen
       Command     *#|R001|F001|GSA|0|6964|return*
       Answer       *#|F001|R001|SA|0^0^1^30^0^7^7|5f17|return*
       Update       *none, nothing changed*

       Argument 1: WLI volume       (0dB)
       Argument 2: Mic/WMI volume   (0dB)
       Argument 1: Routing       ( input 1)
       Argument 1: Output volume    (−30dB)
       Argument 1: Mute       (Mute disabled)
       Argument 1: Bass       (0dB)
       Argument 1: Treble       (0dB)

## SR01

Set routing (select input)
       Command: SR01
       Arguments: input

Example
       Select input 3
       Command     *#|R001|F001|SR01|3|5aa2|return*
       Answer       *#|F001|R001|SR01|+|6ed74|return*
       Update       *#|ALL|R001|R01|3|e5e4|return*

## SRU01

Set Routing up
  Command: SRU01
  Arguments: 0 (none)

Example
  Increase routing
  Command      *#|R001|F001|SRU01|0|16fc|return*
  Answer       *#|F001|R001|SRU01|+|0683|return*
  Update       *#|ALL|R001|R01|5|45e7|return*

## SRD01

Set Routing down
  Command: SRD01
  Arguments: 0 (none)

Example
  Decrease routing
  Command      *#|R001|F001|SRD01|0|57ff |return*
  Answer       *#|F001|R001|SRD01|+|4780 |return*
  Update       *#|ALL|R001|R01|4|d5e6 |return*

## SB01

Set bass
  Command: SB01
  Arguments: from 0 to 14. (from −14dB to +14db with 7 = 0dB)

Example
  Set bass to +2dB
  Command      *#|R001|F001|SB01|8|faa7|return*
  Answer       *#|F001|R001|SB|+|1d2f|return*
  Update       *#|ALL|R001|B|8|ed58|return*

## ST01

Set treble
  Command: ST01
  Arguments: from 0 to 14. (from −14dB to +14db with 7 = 0dB)

Example
  Set treble to −4dB
  Command      *#|R001|F001|ST01|5|9ca1|return*
  Answer       *#|F001|R001|ST01|+|08d7|return*
  Update       *#|ALL|R001|T01|5|23e7|return*

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## SM01

Set mute state in a zone
        Command: SMXX
        Arguments: 0 (disable) or 1 (enable)

Example
        Enable mute in zone 1

| | |
|---|---|
| Command | *#\|R001\|F001\|SM01\|1\|55a1\|return* |
| Answer | *#\|F001\|R001\|SM01\|+\|01d5\|return* |
| Update | *#\|ALL\|R001\|M01\|1\|eae7\|return* |

## SAVE

Save's the current zone settings (routing, volume, bass, treble)
        Command: SAVE
        Arguments: 0 (none)

Example

| | |
|---|---|
| Command | *#\|R001\|F001\|SAVE\|0\|f1b3\|return* |
| Answer | *#\|F001\|R001\|SAVE\|+\|35c6\|return* |
| Update | *none, nothing changed* |

## DEF

All zone settings and device settings will be reset to factory default.
        Command: DEF
        Arguments: 0 (none)

Example

| | |
|---|---|
| Command | *#\|R001\|F001\|DEF\|0\|ed2c\|return* |
| Answer | *#\|F001\|R001\|DEF\|+\|e268\|return* |
| Update | *none* |

## GSV

Get the software version of the DSP board
        Command: GSV
        Arguments: 0 (none)

Example

| | |
|---|---|
| Command | *#\|R001\|F001\|GSV\|0\|dd61\|return* |
| Answer | *#\|F001\|R001\|SV\|V1.1\|8663\|return* |
| Update | *none, nothing changed* |