

Audio sources commands manual

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Introduction

Welcome to the commands user manual of the Audac audio players. This manual describes the commands whereby the range of audac audio players can be controlled using their remote control ports. Depending on the model of audio player (and/or the type of main unit where connected when using SourceCon™ modular technology), the supported control interfaces might be different. The supported models including their available control interfaces are listed in the table below.

MODEL	AVAILABLE CONTROL INTERFACES
XMP44	TCP/IP & RS-232
TMP40	TCP/IP & RS-232 (when inserted to supporting main unit)
TSP40	RS-232
DMP40	TCP/IP & RS-232 (when inserted to supporting main unit)
DSP40	RS-232
IMP40	TCP/IP & RS-232 (when inserted to supporting main unit)
ISP40	RS-232
MMP40	TCP/IP & RS-232 (when inserted to supporting main unit)
MSP40	RS-232
FMP40	TCP/IP & RS-232 (when inserted to supporting main unit)
BMP40	TCP/IP & RS-232 (when inserted to supporting main unit)

Using the commands

Depending of the type of device the different kinds of communication ports are:

- RS–232 port
- TCP/IP port

RS232 Configuration details	
CONNECTION	Standard RS232
PIN 2	Audiosource TX
PIN 3	Audiosource RX
PIN 5	GND
Settings	19200 Baud 8 Bit 1 Stop bit No parity No Handshaking

TCP/IP Configuration details	
IP Address	User configurable
Port	5001
Max connections	1

Command overview

Startsymbol | Destination | Source | Command | Argument(s) | Checksum | Stopsymbol

Each command is followed by an ‘x’ character, which represents the number of the slot whereto the command is sent. If the audio player doesn’t support multiple slots, the number ‘1’ shall always be used.

Example: Set output gain to –20 dB for module 1
 ASCII: #ID001/web/SOG1/28/U/return
 HEX: 237C443030317C7765627C534F47317C32387C3766666617C0D0A

Notes
<ul style="list-style-type: none">• The address of the audio player is fixed at ‘D001’• The checksum is CRC–16 excluding the ‘#’. The checksum can always be replaced by ‘U’, which is always accepted.• Return in ASCII : <CR> <LF> HEX : 0x0D 0x0A (carriage return & line feed)• Source address has a maximum length of 4 characters and cannot contain ‘l’ or ‘#’

Command flow

- 1) The client sends a command to the audio player (Command)
- 2) The audio player acknowledges the command by returning the same command and a ‘+’ as Argument. (Acknowledge)
- 3) The audio player updates all client’s with the new information (Update)

For modular audio players featuring both RS–232 and TCP/IP communication ports, the update feedback is only available on the TCP/IP command port (not on RS–232).

GTPS

Gives feedback about the type of audio player and/or installed modules and their software versions

Command: GTPS
Arguments: None (0)
Feedback: DMP40/DSP40 = 1
TMP40/TSP40 = 2
MMP40/MSP40 = 3
IMP40/ISP40 = 4
FMP40 = 6
BMP40 = 8
No module installed = 15
Not supported = 255

Example:

Get info about the type of audio player and/or installed modules:

Command: #ID001|web|GTPS|0|U|return
Answer: #|ALL|ID001|TPS|4^1^15^6^IMP40 V 1.0.4^DMP40 ^No Module ^
FMP40 V1.4.29|a3f8|return

SOGx

Set the output gain level

Command: SOGx (with 'x' the number of slot)
Arguments: Output gain in dB (range depending of the module type)
Remark: Max output gain is +8 dB, which corresponds with argument '0'.
Always increment negative output gain in dB with 8
Set gain to +8 dB -> Argument = '0'
Set gain to 0 dB -> Argument = '8'
Set gain to -20 dB -> Argument = '28'

Example:

Set output gain for slot 1 to -20 dB

Command: #ID001|web|SOG1|28|U|return
Acknowledge: #|web|ID001|SOG1|+|U|return
Update: #|ALL|ID001|OG1|28|1b88|return

GOGx

Get output gain level

Command: GOGx (with 'x' the number of slot)
Arguments: None (0)

Example:

Get output gain for slot 1 (-20 dB)

Command: #ID001|web|GOG1|0|U|return
Answer: #|ALL|ID001|OG1|28|9dd8|return

SFREQx

Set tuning frequency for FM tuner

Command: SFREQx (with 'x' the number of slot)
Arguments: Tuning frequency in integers

Example:

Set tuning frequency to 104.10 MHz for slot 1

Command: #ID001|web|SFREQ1|10410|UI|return
Acknowledge: #|web|ID001|SFREQ1|+|UI|return
Update: #|ALL|ID001|FREQ1|10410|927c|return

SFSUPx

Automatic tuning frequency search up

Command: SFSUPx, (with 'x' the number of slot)
Arguments: None (0)
Remark: Multiple frequencies will be given as update while searching. The last given update is the finally tuned station.

Example:

Automatic tuning frequency search up for slot 1

Command: #ID001|web|SFSUP1|0|UI|return
Acknowledge: #|web|ID001|SFSUP1|+|UI|return
Update: #|ALL|ID001|FREQ1|10410|927c|return

SFSDNx

Automatic tuning frequency search down

Command: SFSDNx, (with 'x' the number of slot)
Arguments: None (0)
Remark: Multiple frequencies will be given as update while searching. The last given update is the finally tuned station.

Example:

Automatic tuning frequency search down for slot 1

Command: #ID001|web|SFSDN1|0|UI|return
Acknowledge: #|web|ID001|SFSDN1|+|UI|return
Update: #|ALL|ID001|FREQ1|10410|927c|return

SELPRx

Select tuner frequency preset (stored radio station)

Command: SELPRx, (with 'x' the number of slot)
Arguments: Number of preset (1 to 10)

Example:

Select tuner frequency preset 4 for slot 1

Command: #ID001|web|SELPR1|4|UI|return
Acknowledge: #|web|ID001|SELPR1|+|UI|return
Update: #|ALL|ID001|FREQ1|10410|927c|return

SPRESx

Set tuner frequency to preset

Command: SPRESx, (with 'x' the number of slot)
Arguments: Number of preset (1 to 10)

Example:

Set tuner frequency to preset 1

Command: #ID001|web|SPRES1|1|UI|return
Acknowledge: #|web|ID001|SPRES1|+|a9b4|return
Update: #|web|ID001|PRES1|1|^10360^103.60 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 |0a26|return

GPRESx

Get tuner frequency

Command: GPRESx, (with 'x' the number of slot)
Arguments: All stored frequencies will be given for this slot

Example:

Command: #ID001|web|GPRES1|1|UI|return
Answer: #|web|ID001|PRES1|1|^10360^103.60 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 ^1^10000^100.00
^1^10000^100.00 ^1^10000^100.00 |0a26|return

SSTSEx

Set stereo state

Command: SSTSEx (with x the number of the slot)
Arguments: Mono = 0
Stereo = 1

Example:

Command: #ID001|web|SSTSE1|1|UI|return
Acknowledge: #|web|ID001|SSTSE1|+|89d9|return
Update: #|ALL|ID001|STSE1|1|59d8|return

SSBNDx

Toggle band between FM and DAB

Command: SSBNDx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: DAB = 0
FM = 1

Example:

Toggle band between FM and DAB for slot 1

Command: #ID001|web|SSBND1|0|UI|return
Acknowledge: #|web|ID001|SSBND1|+|UI|return

Update: #IALLD001IBND1I1I927clreturn

GPRGNx

Get station / program name of the currently playing station

Command: GPRGNx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently playing station / program name in string

Example:

Get station / program name for radio tuner on slot 1

Command: #ID001IwebIGPRGN1I0IUlreturn

Answer: #IALLD001IPRGN1I<<program name in string>>Ichecksumlreturn

GPRGTx

Get station / program additionally carried text information of currently playing station

Command: GPRGTx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently playing station / program text in string

Example:

Get station / program text for radio tuner on slot 1

Command: #ID001IwebIGPRGT1I0IUlreturn

Answer: #IALLD001IPRGT1I<<program text in string>>Ichecksumlreturn

GFREQx

Get tuning frequency for FM tuner

Command: GFREQx (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently tuned frequency in integers

Example:

Get tuning frequency for FM tuner on slot 1

Command: #ID001IwebIGFREQ1I0IUlreturn

Answer: #IALLD001IFREQ1I10410I927clreturn

GCHx

Get tuning channel for DAB tuner

Command: GCHx (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently tuned channel in integers

Example:

Get tuned channel for DAB tuner on slot 1

Command: #ID001IwebIGCH1I0IUlreturn

Answer: #IALLD001ICH1I5I460elreturn

GBNDx

Get band info (FM or DAB) for FM & DAB tuner

Command: GBNDx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: DAB = 0
 FM = 1

Example:

Get status for band for FM & DAB tuner on slot 1

Command: #ID001lwebiGBND1l0lUlrreturn
Answer: #IALlID001lBND1l1l927clreturn

GSIGSx

Get signal reception strength

Command: GSIGSx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Signal reception strength (percentage) in integers

Example:

Get signal reception strength for tuner on slot 1

Command: #ID001lwebiGSIGS1l0lUlrreturn
Answer: #IALlID001lSIGS1l85l360alreturn

GSTSTx

Get stereo output state

Command: GSTSTx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Mono = 0
 Stereo = 1

Example:

Get stereo output state for audio player on slot 1

Command: #ID001lwebiGSTST1l0lUlrreturn
Answer: #IALlID001lSTST1l1l56c1lreturn

GSONx

Get name of currently playing audio track

Command: GSONx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Currently playing track name text in string

Example:

Get name of currently playing audio track on slot 1

Command: #ID001lwebiGSON1l0lUlrreturn
Answer: #IALlID001lSON1l<<track name text in string>>lchecksumlreturn

GSTNx

Get station name (from database) of the currently playing station

Command: GSTNx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Currently playing station name text in string

Example:

Get name of currently playing station on slot 1

Command: #ID001IwebIGSTN1I0IUreturn
Answer: #IALLD001ISTN1I<<station name text in string>>IchecksumIreturn

GFAVx

Get favourite stored stations (10 stations will be given)

Command: GFAVx, (with 'x' the number of slot)
Arguments: Index in favourites list
Feedback: Favourites station index + name + pointer (for 10 subsequent stations)

Example:

Get favourite stored stations on slot 3, starting with index '0' (10 stations will be given)

Command: #ID001IwebIGFAV3I0IUreturn
Answer: #IALLD001IFAV3I0^<<station0 name in string>>^<<pointer 0>>
^1^station1 name in string>>^<<pointer 1>>^2^station2 name in
string>>^<<pointer 2>> ...

DWSESTx

Select favourite stored stations

Command: DWSESTx, (with 'x' the number of slot)
Arguments: Pointer of the selecting station
Feedback: Selected station name text in string

Example:

Select favourite radio station in slot 3 with pointer 4741

Command: #ID001IwebIDWSEST3I4741IUreturn
Acknowledge: #IwebID001IDWSEST3I+IUreturn
Update: #IALLD001ISTN3IStudio Brussell7e6blreturn

SPPLAYx

Start audio track playing

Command: SPPLAYx, (with 'x' the number of slot)
Arguments: None (0)

Example:

Start audio track playing on slot 1

Command: #ID001IwebISPPLAY1I0IUreturn
Acknowledge: #IwebID001ISPPLAY1I+IUreturn

SPSTOPx

Stop audio track playing

Command: SPSTOPx, (with 'x' the number of slot)
Arguments: None (0)

Example:

Stop audio track playing on slot 1

Command: #ID001|web|SPSTOP1|0|UI|return

Acknowledge: #|web|ID001|SPSTOP1|+|UI|return

SPPAUSx

Pause audio track

Command: SPPAUSx, (with 'x' the number of slot)

Arguments: None (0)

Example:

Pause audio track on slot 1

Command: #ID001|web|SPPAUS1|0|UI|return

Acknowledge: #|web|ID001|SPPAUS1|+|UI|return

SPGTSTx

Go to begin of audio track

Command: SPGTSTx, (with 'x' the number of slot)

Arguments: None (0)

Example:

Go to begin of audio track on slot 1

Command: #ID001|web|SPGTST1|0|UI|return

Acknowledge: #|web|ID001|SPGTST1|+|UI|return

SPNEXTx

Browse to next audio track

Command: SPNEXTx, (with 'x' the number of slot)

Arguments: None (0)

Example:

Browse to next audio track on slot 1

Command: #ID001|web|SPNEXT1|0|UI|return

Acknowledge: #|web|ID001|SPNEXT1|+|UI|return

SPPREVx

Browse to previous audio track

Command: SPPREVx, (with 'x' the number of slot)

Arguments: None (0)

Example:

Browse to previous audio track on slot 1

Command: #ID001|web|SPPREV1|0|UI|return

Acknowledge: #|web|ID001|SPPREV1|+|UI|return

SPFFWx

Fast forward audio track

Command: SPFFWx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: Fast forward speed (1 = 1x; 4 = 4x; 16 = 16x)

Remark: If multiple fast forward commands are given, the speed will be increased in following sequence: 1x (play) > 4x > 16x

Example:

Fast forward audio track on slot 1

Command: #ID001|web|SPFFW1|0|U|return
Acknowledge: #|web|ID001|SPFFW1|+|U|return
Update: #|ALL|ID001|PFFW1|4|db13|return

SPFRWx

Fast rewind audio track

Command: SPFRWx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Fast rewind speed (1 = 1x; 4 = 4x; 16 = 16x)
Remark: If multiple fast rewind commands are given, the speed will be increased in following sequence: 1x (play) > 4x > 16x

Example:

Fast rewind audio track on slot 1

Command: #ID001|web|SPFRW1|0|U|return
Acknowledge: #|web|ID001|SPFRW1|+|U|return
Update: #|ALL|ID001|PFRW1|4|da47|return

SPRPx

Set repeat mode

Command: SPFRWx, (with 'x' the number of slot)
Arguments: Repeat one = 0
Repeat folder = 1
Repeat x times = 2
Repeat off = 3
Repeat all = 4

Example:

Set repeat mode to 'Repeat all' on slot 1

Command: #ID001|web|SPRP1|4|U|return
Acknowledge: #|web|ID001|SPRP1|+|U|return
Update: #|ALL|ID001|PRP1|4|lacabl|return

SPRNDx

Set random mode

Command: SPRNDx, (with 'x' the number of slot)
Arguments: Random off = 0
Random on = 1

Example:

Set random mode on for slot 1

Command: #ID001|web|SPRND1|1|U|return
Acknowledge: #|web|ID001|SPRND1|+|U|return
Update: #|ALL|ID001|PRND1|1|01c0|return

GPSIx

Get playing song info from currently playing audio track

Command: GPSIx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Currently playing song info
(songname, artist, album, length seconds, seconds played, image available)

Example:

Get playing song info of playing audio track on slot 1

Command: #ID001|web|GPSI1|0|U|return

Answer: #|ALL|ID001|PSI1|<<songname^artist^album^length seconds^seconds played>>|checksum|return

GPSTATx

Get player status info

Command: GPSTATx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently player status info (playing, paused, stop, recording)

Playing = 0^1^0

Paused = 1^0^0

Stopped = 0^0^0

Recording = 0^0^1

Remark: The player status feedback command (PSTAT) is continuously given when changed the player status

Example:

Get player status info for audio track on slot 1

Command: #ID001|web|GPSTAT1|0|U|return

Answer: #|ALL|ID001|PSTAT1|<<paused^playing^recording>>|checksum|return

GRRMx

Get player / recorder mode

Command: GRRMx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: Currently configured player / recorder mode

Player = 0

Recorder = 1

Example:

Get player / recorder mode on slot 2

Command: #ID001|web|GRRM2|0|U|return

Answer: #|web|ID001|RRM2|1|checksum|return

SRRMx

Set player / recorder mode

Command: SRRMx, (with 'x' the number of slot)

Arguments: Player = 0

Recorder = 1

Example:

Set mode to recorder on slot 2

Command: #ID001|web|SRRM2|1|U|return

Acknowledge: #|web|ID001|SRRM2|+|U|return

Update: #|ALL|ID001|RRM2|1|7a67|return

SRSTAx

Start recording

Command: SRSTAx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Currently recording track name and filesize

Example:

Start recording on slot 2

Command: #ID001IwebISRSTA2I0IUIreturn
Acknowledge: #IwebID001ISRSTA2I+IUIreturn

SRSTOx

Stop recording

Command: SRSTOx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Finished recording track name

Example:

Stop recording on slot 2

Command: #ID001IwebISRSTO2I0IUIreturn
Acknowledge: #IwebID001ISRSTO2I+IUIreturn

SRPAUx

Pause recording

Command: SRPAUx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Finished recording track name

Example:

Stop recording on slot 2

Command: #ID001IwebSRPAU2I0IUIreturn
Acknowledge: #IwebID001SRPAU2I+IUIreturn

SRCANx

Cancel recording

Command: SRPAUx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Finished recording track name
Remark: Cancel command stops and removes the recorded file

Example:

Cancel recording on slot 2

Command: #ID001IwebSRCAN2I0IUIreturn
Acknowledge: #IwebID001SRCAN2I+IUIreturn

SSTRx

Start / stop trigger

Command: SSTRx, (with 'x' the number of slot)

Arguments: Argument 1: trigger number (integer)

Argument 2: 1 = Start trigger

0 = Stop trigger

Feedback: Triggered event track name

Remark: Depending of the configured playback mode for the selected trigger, the play / repeat function can be configured

Example1:

Start trigger 1 on slot 4

Command: #ID001IwebISSTR4I1^1IUreturn

Acknowledge: #IwebID001ISSTR4I+IUreturn

Example2:

Stop trigger 1 on slot 4

Command: #ID001IwebISSTR4I1^0IUreturn

Acknowledge: #IwebID001ISSTR4I+IUreturn

GBMPix

Get general BMP40 info

Command: GBMPix, (with 'x' the number of slot)

Arguments: None (0)

Feedback: BMP40 info
(version, name, address)

Example:

Get info of BMP40 on slot 2

Command: #ID001IwebIGBMPi2I0IUreturn

Answer: #IwebID001IBMPI2I<<version^name^address>>IchecksumIreturn

GPAIRSx

Get BMP40 pairing state

Command: GPAIRSx, (with 'x' the number of slot)

Arguments: None (0)

Feedback: BMP40 current pairing state

Pair success = 0

Pair time-out = 1

Pair failed = 2

Pair enabled = 3

Pair disabled = 4

Example:

Get pairing state of BMP40 on slot 2

Command: #ID001IwebIGPAIRS2I0IUreturn

Answer: #IwebID001IPAIRS2I0IchecksumIreturn

SPAIRx

Set BMP40 pairing on (1) / off (0)

Command: SPAIRx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Pairing state (PAIRSx) and enabled pairing time (PAIREx)

Example:

Get pairing state of BMP40 on slot 2

Command: #ID001|web|SPAIR2|1|U|return
Acknowledge: #|web|ID001|SPAIR2|+|20ab|return
Answer: #|ALL|ID001|PAIRS2|3|597f|return
#|ALL|ID001|PAIRE2|20|f77e|return
#|ALL|ID001|PAIRE2|19|a788|return
...
#|ALL|ID001|PAIRE2|0|6a36|return

GPAIRLx

Get paired devices list

Command: GPAIRLx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Paired devices list (8 devices)

Example:

Get paired devices list of BMP40 on slot 2

Command: #ID001|web|GPAIRL2|0|U|return
Answer: #|web|ID001|PAIRL2|<<1^name^address>>|checksum|return
#|web|ID001|PAIRL2|<<2^name^address>>|checksum|return
...
#|web|ID001|PAIRL2|<<8^name^address>>|checksum|return

GCONNLx

Get connected devices

Command: GCONNLx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Connected device information
(number, name, address)

Example:

Get connected devices information of BMP40 on slot 2

Command: #ID001|web|GCONNL2|0|U|return
Answer: #|web|ID001|CONNL2|<<number^name^address>>|checksum|return

SDISCx

Disconnect device

Command: SDISCx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Connected device list (empty)

Example:

Disconnect device BMP40 on slot 2

Command: #ID001|web|SDISC2|0|U|return
Acknowledge: #|web|ID001|SDISC2|+|20ab|return
Answer: #|web|ID001|CONNL2|<<1^>>|checksum|return

SFORGETx

Forget paired device [1–8]

Command: SFORGETx, (with 'x' the number of slot)
Arguments: [1 – 8]
Feedback: Paired devices list

Example:

Forget (unpair) device 3 on BMP40 slot 2

Command: #ID001lwebISFORGET2|3|U|return
Acknowledge: #lwebID001ISFORGET2|+|b0a5|return
Answer: #lwebID001|PAIRL2|<<1^DeviceName1^MacAddress1>>|checksum|return
#lwebID001|PAIRL2|<<2^DeviceName2^MacAddress2>>|checksum|return
#lwebID001|PAIRL2|<<3^^>>|checksum|return
#lwebID001|PAIRL2|<<4^^>>|checksum|return
...
#lwebID001|PAIRL2|<<8^^>>|checksum|return

PPTIx

Broadcasts played time (from current playing track) in seconds

Command: PPTIx, (with 'x' the number of slot)
Arguments: None (0)
Feedback: Played time from current track (in seconds)

Example:

Broadcast played time from BMP40 on slot 2

Command: #ID001lwebIPPTI2|0|U|return
Answer: #|ALLID001|PPTI2|<<playingseconds>>|checksum|return

GPNAMEx

Get player name

Command: GPNAMEx (with 'x' as the slot number)
Arguments: None
Feedback: Player name

Example:

Command: #ID001lwebIGPNAME2|0|U|return
Answer: #lwebID001|PNAME2|NMP40 player 1|cb91|return

SPNAMEx

Set player name

Command: SPNAMEx (with 'x' as the slot number)
Arguments: [New name]

Example:

Command: #ID001lwebISPNAMEx2|NMP40 player 1|U|return
Answer: #lwebID001|SPNAME2|+|72c7|return

GPIPx

Get IP

Command: GPIPx (with 'x' as the slot number)
Arguments: None
Feedback: IP adress

Example:

Command: #ID001lwebIGPIP2l0lreturn
Acknowledge: None
Answer: #ID001lwebIPIP2l10.2.3.99l+lreturn