

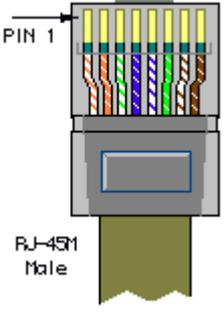
AMP203 commands manual

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Using the commands

The commands can be sent to the AMP203 by IP or using a serial RS485 connection. Please refer to the information below on how to connect to the AMP203:

RS485 Configuration details		
RJ45 (RS485, Digital audio, +24V DC): For connection to Wall Panels & Paging Consoles		
	Pin 1	White–Orange n/c
	Pin 2	Orange n/c
	Pin 3	White–Green +24V DC
	Pin 4	Blue RS485 A
	Pin 5	White–Blue RS485 B
	Pin 6	Green GND
	Pin 7	White–Brown n/c
	Pin 8	Brown n/c

TCP/IP Configuration details	
IP Address	User configurable
Port	8711
Max connections	1

Command flow

- 1) UDP commands can be sent to the AMP's IP address on port 8711. Alternatively the commands can be sent to Multicast address 239.254.222.222 (or broadcast) on port 8711.
- 2) The AMP203 acknowledges the command by returning the same command and a '+' as Argument. (ACK)
In case of a get command the AMP203 will return the current state of the specific get command.
- 3) The AMP203 sends a Multicast/Broadcast update on port 8712 with the new state. This information is used for AUDAC Touch 2. This multicast group can be joined by any (user specific) application to receive a constant flow of the device's status updates.

Note: When sending commands to the multicast address, all the AMP203 devices with the same device address (P001 for example) will receive this command and then execute it.

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 where to the command is sent. If the audio player doesn't support multiple slots, the number '1' shall always be used.

Example: Get IP----
 ASCII: #IP001IF001IGIPIUreturn
 HEX: 237C533030317c463030317c4749507c557c72657475726e0a

Notes

- 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 'I' or '#'

CONFIGURATION AND SETTINGS COMMANDS

GIP

Get info about the ip address, subnet mask and gateway the AMP203 is using:

Command: GIP
Arguments: None (0)
Feedback: dhcp^ip4.ip3.ip2.ip1^mask4.mask3.mask2.mask1^gw4.gw3.gw2.gw1^
DHCP: dhcp ON(1) or OFF(0)
IP: IP4 address of unit
MASK: subnet mask
GW: IP4 address of gateway

Example: Get info about the IP address

```
#IS001IF001IGIP|crcl<CR><LF>
```

```
AMP203 replies: #IF001IS001IPI0^192.168.0.197^255.255.255.0^192.168.0.1|crcl<CR><LF>
```

SIP

Set IP address, subnet, gateway and dns servers:

Command: GIP
Arguments: ^ip4.ip3.ip2.ip1^mask4.mask3.mask2.mask1^gw4.gw3.gw2.
gw1^dns4.dns3.dns2.dns1
dhcp : dhcp ON(1) or OFF(0)
ip : IP4 address of unit
mask : subnet mask
gw : IP4 address of gateway
dns : IP4 address of dns server 1
Feedback: + : acknowledge

Example: Set the IP address

```
#IF001IS001ISIP|0^192.168.0.197^255.255.255.000^192.168.0.1^8.8.8.8^0.0.0.0|UI<CR><LF>
```

```
AMP203 replies: #IF001IS001ISIP|+|crcl<CR><LF>
```

ROUTING COMMANDS

SRD01

Set program down

Command: SRD01
Arguments: None (0)
Feedback: + : acknowledge

SRU01

Set program down

Command: SRU01
Arguments: None (0)
Feedback: + : acknowledge

SR01

Set routing

Command: SR01
Arguments: y
y: 1–4 are Dante channels 1–4
y: 5 is ch1+2
y: 6 is ch+4
y: 7 is ch2+1
y: 8 is ch4+3
Feedback: + : acknowledge

GR01

Get routing

Command: GR01
Arguments: None (0)
Feedback: y
y: 1–4 are Dante channels 1–4
y: 5 is ch1+2
y: 6 is ch3+4
y: 7 is ch2+1
y: 8 is ch4+3

VOLUME + MUTE COMMANDS

SVU01

Set volume up

Command: SVU01
Arguments: None (0)
Feedback: + : acknowledge

SVD01

Set volume down

Command: SVD01
Arguments: None (0)
Feedback: + : acknowledge

SV01

Set same volume for left and right channel

Command: SV01
Arguments: y
y: 70 (refers to -70dB, lowest level)
y: 0 (refers to 0dB, highest level)

Feedback: + : acknowledge

GV01

Get volume

Command: GV01
Arguments: None (0)
Feedback: y
y: volume level from -70 up to 0 dB

SM01

Set mute

Command: SM01
Arguments: None (0)
Feedback: y
y: 0 (unmute)
y: 1 (mute)

GM01

Get mute

Command: GM01
Arguments: None (0)
Feedback: y
y: 0 (unmute)
y: 1 (mute)

SGIA

Set gain for all channels

Command: SGIA
Arguments: x1: gain channel 1
x2: gain channel 2
x3: gain channel 3
x4: gain channel 4

for every channel the gain will be set (-110 up to +24)

Feedback: + : acknowledge

GGIA

Get gain for all channels

Command: GGIA
Arguments: None (0)

Feedback: x1: gain channel 1
x2: gain channel 2
x3: gain channel 3
x4: gain channel 4

for every channel the gain will be displayed (-110 up to +24)

SGI

Set gain for 1 specific channel

Command: SGI
Arguments: x: channel number (1-4)
y: gain channel x

the gain for channel x will be set to value y (-110 up to +24)

Feedback: + : acknowledge