

Amp Box S3 CI RS232 Protocol

1) Data format:

BAUD Rate: 9600 bps
Start: 1 bit
Data: 8 bit
Parity: 0 bit (= N, no parity)
Stop: 1 bit
Handshaking: none

2) Command Format:

All data consists of ASCII characters.

Example: 01PON!

ID	Command	Terminating Character
01	PON	!

Note:

- do not include any spaces in the command
- do not include a carriage return or line feed after the command, only the “!” or “?” terminating character
- responses are terminated with “\$” , none response on error commands or as described

3) ID Assignment – default factory ID 00

IDs can be assigned to individual devices, to be able to turn them on and off independently in chain TX connection. All commands starts with ID and **ID 00 is used as broadcast to all.**

Example: 00PON! = turn on all ready devices

For assigning ID a code received from the device is required. This code is then used for setting ID.

Example:

00GID? Reply 00-001E8010\$ or when device already has id 04-001E8010\$
code = 001E8010

06IDS001E8010! Reply 06IDS\$ when code is ok ID is changed to new 06

Note:

- For assigning IDs only one dev must be connected via RS232 at a time ad RX line is required.
- Disconnect or unpower all other devices, except for the one you want to set the ID.

4) Request Commands

Request commands are terminated with “?” and the response always includes the ID of the unit.

Example: 03PWR? or 00PWR? (ID 00 is used as broadcast to all)

Response:

- 03PON\$ if powered ON
- 03POF\$ if powered OFF

Note: with command **00PWR?** all devices with ID 00 respond at once as first, afterwards all next IDs responds with delay x ms

Responses are delayed based on ID number, therefore it isn't recommend to use bigger numbers than 30.

Command for requesting ID: isn't required, all responses include ID in them

5) Commands List all with prefix ID 00 or 01-99

Command	Description	Unit Response (## = Assigned ID 00-99)
PON!	Power ON	##PON\$ or special 6)
POF!	Power OFF	##POF\$ or special 6)
IDS8numcode!	Set ID	**IDS\$ (** = Set ID 01-99)
GID?	Get ID change code	Example on 3)
PWR?	Request Power Status	##PON\$ or ##POF\$
UPD8numcode!	00 not allowed and next docu descr.	##DFU\$

6) Special device based conditions

AmpBox S3 CI additional PON POF replies: based on back switch AUTO power and Signal Sensing - ##POA\$ or ##POS\$ replies and state of device stay based on switch, cmd POF generate 1sec mute when device can't turn off.

AUTO POWER and SIGNAL SENSING override RS232.

Trigger vs RS232: priority defined as RS232 overrides trigger.

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