

# Pre Box S3 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.

## 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**

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

Command	Description	Unit Response (## = Assigned ID 00-99)
PON!	Power ON	##PON\$
POF!	Power OFF	##POF\$
MON!	Mute ON	##MOF\$
MOF!	Mute OFF	##MOF\$
IN*!	select input *= 1, 2, 3, 4, 5, 6, 7, 8, 9	##IN*\$ (* = 1, 2, 3, 4, 5, 6, 7, 8, 9)
INP?	Request currently selected input	##IN*\$ (* = 1, 2, 3, 4, 5, 6, 7, 8, 9)
INU!	Set in up	##IN*\$ (* = 1, 2, 3, 4, 5, 6, 7, 8, 9)
IND!	Set in down	##IN*\$ (* = 1, 2, 3, 4, 5, 6, 7, 8, 9)
VOU!	1 Step volume up	none
VOD!	1 Step volume down	none
BTP!	Sets device to Bluetooth pairing mode	##BTP\$
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\$ not implemented

these commands work only when powered ON and on any ID

these commands work only when powered ON but only for ID>00

this command works only when powered ON, only for ID>00 and input 8 BT must be selected

### 5) Special device based conditions

Trigger vs RS232: priority defined as RS232 overrides trigger.

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