RS232 Commands for SPLITMUX-HD-2RSLC

The rs232v1-15.exe available on our website is an application that can be used for RS232 control of the SPLITMUX. However, if you want to program an RS232 terminal to provide commands, use the following instruction.

Configuration Parameters:
- **Baudrate**: 115200
- **Data width**: 8 bit
- **Parity**: none
- **Stop**: 1 bit

**Notes**: 1. Package length for all commands is 13 byte.  
2. The RS232 commands are hexadecimal, not ASCII characters

**Port Switch Command**:
```
[0xa5+0x5b+0x02+0x03+<input port (1-2)>+0x00+0x01+0x00+0x00+0x00+0x00+0x00+<checksum>]
```

All you need to change is “input port”, “checksum”

Checksum = \(0x100 - (0xa5+0x5b+0x02+0x03+<input port (1-2)>+0x00+0x01+0x00+0x00+0x00+0x00)\)

For example: Set output from input 2 command:

A5 5B 02 03 02 00 01 00 00 00 00 F8

**Resolution Configure**:
```
[0xa5+0x5b+0x08+0x06+<resolution (0-4)>+0x00+0x00+0x00+0x00+0x00+0x00+0x00+<checksum>]
```

All you need to change is “resolution”, “checksum”

Checksum = \(0x100 - (0xa5+0x5b+0x08+0x06+<resolution (0-4)>+0x00+0x00+0x00+0x00+0x00+0x00)\)

**resolution (0-4)**: 1080P, 720P, 1080I, 1024X768, 1360X768

For example: Set output resolution to 720P command:

A5 5B 08 06 01 00 00 00 00 00 00 00 F1

**Resolution Query**:
This is a query command which mean you must send query package and then receive an answer.

For example: Query Resolution

Send package: A5 5B 09 06 00 00 00 00 00 00 00 00 F1

Receive package: A5 5B 09 06 02 00 00 00 00 00 00 00 F0

The blue 02 indicates the resolution is 1080I (it should be 0~4).
MODE Configure:

There are only four modes

- A5 5B 19 01 01 00 00 00 00 01 00 E4
- A5 5B 19 01 02 00 00 00 00 02 00 E2
- A5 5B 19 01 03 00 00 00 00 03 00 E0
- A5 5B 19 01 04 00 00 00 00 04 00 DE

MODE Query:

This is a query command which means you must send query package and then receive an answer. For example: Query MODE

Send package: A5 5B 19 02 00 00 00 00 00 00 00 00 E5
Receive package: A5 5B 19 02 01 00 00 00 00 00 00 00 E4 The

blue 01 means the MODE (it should be 1 ~ 4).

PIP Mode Position and Size:

Position

- A5 5B 19 03 01 00 00 00 00 00 00 00 E3 top left
- A5 5B 19 03 02 00 00 00 00 00 00 00 E2 top right
- A5 5B 19 03 03 00 00 00 00 00 00 00 E1 bottom left
- A5 5B 19 03 04 00 00 00 00 00 00 00 E0 bottom right

Size

- A5 5B 19 05 01 00 00 00 00 00 00 00 E1 small
- A5 5B 19 05 02 00 00 00 00 00 00 00 E0 middle
- A5 5B 19 05 03 00 00 00 00 00 00 00 DF large
**PIP Mode Position and Size Query:**
This is a query command which means you must send query package and then receive an answer.

For example: send : A5 5B 19 04 00 00 00 00 00 00 00 00 E3
receive :A5 5B 19 04 01 00 00 00 00 00 00 00 E2  means top left

send : A5 5B 19 06 00 00 00 00 00 00 00 00 E1
receive :A5 5B 19 06 01 00 00 00 00 00 00 00 E0  means small

**Show Border Configure:**
Show Border :A5 5B 0C 01 0F 00 0F 00 00 00 00 00 D5
Hidden Border :A5 5B 0C 01 F0 00 F0 00 00 00 00 13

**Show Border Query:**
This is a query command which means you must send query package and then receive an answer.

For example: Query Border State
Send package:  A5 5B 0C 03 00 00 00 00 00 00 00 00 00 F1
Receive package:A5 5B 0C 03 0F00 00 00 00 00 00 00 00 E2
The blue 0F, it means to Show Border (it should be 0~1). (If F0, it means Hidden Border)

**Audio Independent Switch Check Configure:**
Audio independent switch check ON :A5 5B 08 22 0F 00 00 00 00 00 00 00 00 checksum
Audio independent switch check OFF :A5 5B 08 22 F0 00 00 00 00 00 00 00 00 checksum

**Audio Independent Switch Check Border Query:**
This is a query command which mean you must send query package and then receive an answer.

For example: Query Audio Independent Switch check State
Send package:  A5 5B 08 24 00 00 00 00 00 00 00 00 00 checksum
Receive package:A5 5B 08 24 0F00 00 00 00 00 00 00 00 checksum
The blue0F means the Audio independent switch check is ON, it should be 0~1. (if F0, it means Audio independent switch check is OFF)

**Audio Independent Switch:**
For example: Set Audio to Port 1 command:
A5 5B 08 23 01 00 00 00 00 00 00 00 checksum
The blue 01 indicates the Audio port number (it should be 1 or 2.)
**Audio Independent Switch Query:**
This is a query command which mean you must send query package and then receive an answer.

For example: Query audio output
Send package: A5 5B 08 25 00 00 00 00 00 00 00 00 checksum
Receive package: A5 5B 08 25 01 00 00 00 00 00 00 00 checksum
The blue 01 indicates the Audio port number (it should be 1 or 2).

**Reset Sys Configure:**
Send package: A5 5B 08 0A 00 00 00 00 00 00 00 00 EE
Receive package: A5 5B 08 0A 00 00 00 00 00 00 00 00 EE

**IR command:**
**NEC code**
```
#define SYSTEM_CODE   0x08F7
#define IRCODE_POWER  0x04
#define IRCODE_INPUT1 0x00
#define IRCODE_INPUT2 0x43
#define IRCODE_UP     0x17
#define IRCODE_DOWN   0x1B
#define IRCODE_LEFT   0x1A
#define IRCODE_RIGHT  0x59
#define IRCODE_SIZE   0x42
#define IRCODE_MODE   0x16
#define IRCODE_Resolution 0x0F
```