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+0x00)

For example: Set output from input 2 command:

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

Port Switch Query:

This is a query command which means you must send query package and then receive an answer.

For example: Query output

Send package: A5 5B 02 01 01 00 00 00 00 00 00 00 FC

Receive package:A5 5B 02 01 01 00 01 00 00 00 00 00 FB

The blue 01 indicates the input port number (it should be 1 or 2).

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+0x02+0x03+**resolution(0~4)**+0x00+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
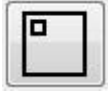
Receive package:A5 5B 09 06 02 00 00 00 00 00 00 00 F0

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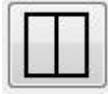
MODE Configure:

There are only four modes

 A5 5B 19 01 01 00 00 00 00 00 01 00 E4

 A5 5B 19 01 02 00 00 00 00 00 02 00 E2

 A5 5B 19 01 03 00 00 00 00 00 03 00 E0

 A5 5B 19 01 04 00 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 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 F1

Receive package:A5 5B 0C 03 0F00 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 checksum

Audio independent switch check OFF :A5 5B 08 22 F0 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 checksum

Receive package:A5 5B 08 24 0F00 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 1or 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 1or 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