Command codes for LINDY 38152 4x4 HDMI 4K Matrix

RS-232 Command:
Baudrate: 19200
Data width: 8bit
Parity: none
Stop: 1bit

Port switch command package length is 13byte:
[0xa5+0x5b+0x02+0x03+input port(1~4)+0x00+output port(1~4)+0x00+0x00+0x00+0x00+0x00+ checksum]
All you need to change is just “input port”, ”output port”, ”checksum”
Checksum = 0x100 – (0xa5+0x5b+0x02+0x03+input port+0x00+output port+0x00+0x00+0x00+0x00+ 0x00)

For example: Set output 1 form input 2 command:
A5 5B 02 03 02 00 01 00 00 00 00 00 F8

Port switch query package length is 13byte:
This is a query command which mean you must send query package and then receive an answer.
For example: Query output A input port (1~4)
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 red 01 mean the output port number, it should be 1~4.
The blue 01 mean the input port number, it should be 1~4.

Edid set command package length is 13byte:
[0xa5+0x5b+0x03+0x02+Edid index(1~15)+0x00+input port(1~4)+0x00+0x00+0x00+0x00+0x00+0x00+ checksum]
Means: set edid mode to one input port

[0xa5+0x5b+0x03+0x01+Edid index(1~15)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+0x00+checksum]
Means: set edid mode to all input port

Edid index list:

SE_1080I_20	= 1
SE_1080I_51	= 2
SE_1080I_71	= 3
SE_1080P_20	= 4

SE_1080P_51 = 5
SE_1080P_71 = 6
SE_3D_20 = 7
SE_3D_51 = 8
SE_3D_71 = 9
SE_4K2K_20 = 10
SE_4K2K_51 = 11
SE_4K2K_71 = 12
SE_DVI_1024_768 = 13
SE_DVI_1920_1080 = 14
SE_DVI_1920_1200 = 15

Edid copy command package length is 13byte:
[0xa5+0x5b+0x03+0x04+output port (1~4)+0x00+input port(1~4)+0x00+0x00+0x00+0x00+0x00+0x00+checksum]
Means: copy output port X edid to input port X
[0xa5+0x5b+0x03+0x03+output port (1~4)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+0x00+checksum]
Means: copy output port X edid to all input port

Output HDP status query package is 13byte:
This is a query command which mean you must send query package and then receive an answer.
For example: Query output 1(1~4) HPD status
Send package: A5 5B 01 05 01 00 00 00 00 00 00 00 F9
Receive package: A5 5B 01 05 01 00 FF 00 00 00 00 00 FA
The red 01 mean the output port number, it should be 1~4.
The blue FF mean this port's HPD is LOW, if 00 mean HIGH.

Input port status query package is 13byte:
This is a query command which mean you must send query package and then receive an answer.
For example: Query input 1(1~4) status
Send package: A5 5B 01 04 01 00 00 00 00 00 00 00 FA
Receive package: A5 5B 01 04 01 00 FF 00 00 00 00 00 FB
The red 01 mean the input port number, it should be 1~4.
The blue FF mean this port is plug in, if 00 mean plug out.

Beep on/off command package length is 13byte:
[0xa5+0x5b+0x06+0x01+Beep onoff(0x0f:ON; 0xf0:OFF)+0x00+0x00+0x00+0x00+0x00+0x00+0x00+checksum]

Beep on/off query package is 13byte:
This is a query command which mean you must send query package and then receive an answer.
For example:
Send package: A5 5B 01 0B 00 00 00 00 00 00 00 00 F4
Receive package: A5 5B 01 0B 00 00 FF 00 00 00 00 00 F5
The blue FF mean Beep off, if 00 mean Beep on.

IR command: NEC code
#define SYSTEM_CODE 0x00

#define IR_KEY_POWER 0x14

#define IR_KEY_OUTPUT_1_FROM_1 0x09

```
#define IR_KEY_OUTPUT_1_FROM_2      0x1D
#define IR_KEY_OUTPUT_1_FROM_3      0x1F
#define IR_KEY_OUTPUT_1_FROM_4      0x0D
#define IR_KEY_OUTPUT_1_PRE         0x1B
#define IR_KEY_OUTPUT_1_NEXT        0x11

#define IR_KEY_OUTPUT_2_FROM_1      0x17
#define IR_KEY_OUTPUT_2_FROM_2      0x12
#define IR_KEY_OUTPUT_2_FROM_3      0x59
#define IR_KEY_OUTPUT_2_FROM_4      0x08
#define IR_KEY_OUTPUT_2_PRE         0x55
#define IR_KEY_OUTPUT_2_NEXT        0x48

#define IR_KEY_OUTPUT_3_FROM_1      0x5e
#define IR_KEY_OUTPUT_3_FROM_2      0x06
#define IR_KEY_OUTPUT_3_FROM_3      0x05
#define IR_KEY_OUTPUT_3_FROM_4      0x03
#define IR_KEY_OUTPUT_3_PRE         0x07
#define IR_KEY_OUTPUT_3_NEXT        0x40

#define IR_KEY_OUTPUT_4_FROM_1      0x18
#define IR_KEY_OUTPUT_4_FROM_2      0x44
#define IR_KEY_OUTPUT_4_FROM_3      0x0f
#define IR_KEY_OUTPUT_4_FROM_4      0x51
#define IR_KEY_OUTPUT_4_PRE         0x1E
#define IR_KEY_OUTPUT_4_NEXT        0x0E
```