VX4S Command Protocol

1.communication port and format

1.1 Command data format is hexadecimal

1.2 Connect by TCP method

TCP port : 5200

Search device command :

Request package

55 aa 00 00 fe 00 00 00 00 00 00 00 02 00 00 00 02 00 57 56

Return package

When the return package same as following, it means connected

aa 55 00 00 00 fe 00 00 00 00 00 00 02 00 00 00 02 00 06 61 be 56

2.function control

2.1 switch input source

set input source as DVI

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 10 b4 56

Set input source as HDMI

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 a0 44 57

Set input source as VGA1

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 01 a5 56

Set input source as VGA2

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 02 a6 56

Set input source as CVBS1

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 71 15 57

Set input source as CVBS2

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 72 16 57

Set input source as SDI

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 40 e4 56

Set input source as DP

55 aa 00 00 fe 00 00 00 00 00 01 00 2d 00 20 02 01 00 90 34 57

When the return package same as following,it means that switch input source is successful

aa 55 00 00 00 fe 00 00 00 00 01 00 2d 00 20 02 00 00 a3 56

2.2 display mode

display mode control command

normal display

55 aa 00 00 fe 00 00 00 00 00 01 00 50 00 20 02 01 00 00 c7 56

Display freeze

55 aa 00 00 fe 00 00 00 00 00 01 00 50 00 20 02 01 00 01 c8 56

Display black

55 aa 00 00 fe 00 00 00 00 00 01 00 50 00 20 02 01 00 02 c9 56

Return package

When the return package same as following,it means that control

display mode is successful

aa 55 00 00 00 fe 00 00 00 00 01 00 50 00 20 02 00 00 c6 56

2.3 disable / able LCD and button function

command of able LCD and button

55 aa 00 00 fe 00 00 00 00 00 01 00 F7 00 20 02 01 00 00 6E 57

command of disable LCD and button

55 aa 00 00 fe 00 00 00 00 00 01 00 F7 00 20 02 01 00 01 6F 57

Return package

When the return package same as following, it means that control

LCD and button is successful

aa 55 00 00 00 fe 00 00 00 00 01 00 F7 00 20 02 00 00 6D 57

2.4 brightness control

command of brightness control

55 aa 00 00 fe ff 01 ff ff ff 01 00 01 00 00 02 01 00 XX SUM_L

SUM_H

XX :your expected brightness of LED screen

SUN_L: checksum low 8bit

SUM_H: checksum high 8bit

The calculate method of checksum, as following

SUM   =   0x00 + 0x00 + 0xFE + 0xFF+ 0x01 + 0xFF + 0xFF +

0xFF + 0x01 + 0x00 + 0x01 + 0x00 + 0x00 + 0x02 + 0x01 + 0x00 +

XX + 0x5555 ,

SUM = SUM_H << 8 + SUM_L

Return package

When the return package same as following, it means that

brightness adjustment is successful

aa 55 00 00 ff fe 01 ff ff ff 01 00 01 00 00 02 00 00 54 5a

2.5 PIP turn on/off

Command of turn on PIP :

55 aa 00 00 fe ff 00 00 00 00 01 00 30 00 20 02 01 00 01 a7 57

Command of turn off PIP   :

55 aa 00 00 fe ff 00 00 00 00 01 00 30 00 20 02 01 00 00 a6 57

Command package of return

When the return package same as following, it means that PIP

switch is successful

aa 55 00 00 ff fe 00 00 00 00 01 00 30 00 20 02 00 00 A5 57