Introduction

This is a 1-card 1-port 4K60 quad-view output card to be used on the 8x8, 16x16 and 36x36 80x80 modular chassis matrix, it can support several workings modes(quad-view, single-picture, PIP, etc) and this card can be controlled via the remote control, sending RS232 codes or pushing the LAYOUT key, the output resolution can up to 4K60. The UVC USB port is for the USB capture, this card also supports the 3.5mm audio de-embedded.

Features

➢ Output resolution up to 4K60
➢ Supports RS232/IR remote and LAYOUT key control
➢ Supports several working modes
➢ Supports 1-card 1-port
➢ Supports the USB capture
➢ Supports 3.5mm audio de-embedded
➢ Can work with the 8x8, 16x16, 36x36 and 80x80 Card Cage chassis

Control commands

RS232: Baud rate, 115200, Data bit: 8, Stop bit: 1, Check bit: None(The commands can be ASCII(can send GET HELP. , then it will show up the full command list)

TCP: through the Matrix LAN ports, port number is 5000

UDP: through the matrix LAN ports, port number is 4000

8 Working Modes:

  Single-Window: EB 90 00 11 00 ff 32 00 00 01 02 03 00 00 00 00 00 00

  2-Window(LeftRight_Middle): EB 90 00 12 00 ff 32 01 00 01 02 03 00 00 00 00 00 00

  2-Window(Pip_LeftTop): EB 90 00 11 00 ff 32 02 00 01 02 03 00 00 00 00 00 00

  2-Window(Pip_RightBotom): EB 90 00 12 00 ff 32 03 00 01 02 03 00 00 00 00 00 00

  3-Window(Up1Down2): EB 90 00 11 00 ff 32 04 00 01 02 03 00 00 00 00 00 00

  3-Window(Up1Down2_02): EB 90 00 12 00 ff 32 05 00 01 02 03 00 00 00 00 00 00

  Quad-view(2x2): EB 90 00 12 00 ff 32 06 00 01 02 03 00 00 00 00 00 00

  4-Window(1+3right): EB 90 00 12 00 ff 32 07 00 01 02 03 00 00 00 00 00 00

Audio Channel Switching:

Audio channel 1: EB 90 00 12 00 ff 30 00 00 00 00 00 00 00 00 00 00 00 00

Audio channel 2: EB 90 00 12 00 ff 30 0100 00 00 00 00 00 00 00 00 00 00

Audio channel 3: EB 90 00 12 00 ff 30 02 00 00 00 00 00 00 00 00 00 00 00

Audio channel 4: EB 90 00 12 00 ff 30 03 00 00 00 00 00 00 00 00 00 00 00

Resolutions:

1920x1080@60: EB 90 00 12 00 ff 23 00 00 00 00 00 00 00 00 00 00 00 00

1920x1080@50: EB 90 00 12 00 ff 23 01 00 00 00 00 00 00 00 00 00 00 00

1920x1200@60: EB 90 00 12 00 ff 23 02 00 00 00 00 00 00 00 00 00 00 00

1360x768@60: EB 90 00 12 00 ff 23 03 00 00 00 00 00 00 00 00 00 00 00

1280x720x60: EB 90 00 12 00 ff 23 04 00 00 00 00 00 00 00 00 00 00 00

1024x768x60: EB 90 00 12 00 ff 23 05 00 00 00 00 00 00 00 00 00 00 00

2560X1600x60: EB 90 00 1200 ff 23 06 00 00 00 00 00 00 00 00 00 00 00

2560X1600x50: EB 90 00 12 00 ff 23 07 00 00 00 00 00 00 00 00 00 00 00

3840x2160x60: EB 90 00 12 00 ff 23 08 00 00 00 00 00 00 00 00 00 00 00

3840x2160x50: EB 90 00 12 00 ff 23 09 00 00 00 00 00 00 00 00 00 00 00

3840x2160x30: EB 90 00 12 00 ff 23 0A 00 00 00 00 00 00 00 00 00 00 00

3840x2160x25: EB 90 00 12 00 ff 23 0B 00 00 00 00 00 00 00 00 00 00 00

3840x2160x24: EB 90 00 12 00 ff 23 0C 00 00 00 00 00 00 00 00 00 00 00

4096x2160@60: EB 90 00 12 00 ff 23 0D 00 00 00 00 00 00 00 00 00 00 00

4096x2160@30: EB 90 00 12 00 ff 23 0E 00 00 00 00 00 00 00 00 00 00 00

720x480@60: EB 90 00 12 00 ff 23 0F 00 00 00 00 00 00 00 00 00 00 00

720x576@50: EB 90 00 12 00 ff 23 10 00 00 00 00 00 00 00 00 00 00 00

2560x1080@60: EB 90 00 12 00 ff 23 11 00 00 00 00 00 00 00 00 00 00 00

2560x1440@60: EB 90 00 12 00 ff 23 12 00 00 00 00 00 00 00 00 00 00 00

4096X1424@60: EB 90 00 12 00 ff 23 FF 10 00 05 90 3C 00 00 00 00 00 00

Image rotate(only works when Single-window mode)

Normal display EB 90 00 11 00 ff 27 00 00 01 02 03 00 00 00 00 00 00

90 degrees rotate EB 90 00 11 00 ff 27 00 00 01 02 03 01 00 00 00 00

270 degrees rotate EB 90 00 11 00 ff 27 00 00 01 02 03 02 00 00 00 00

180 degrees rotate with Mirroring EB 90 00 11 00 ff 27 00 00 01 02 03 03 00 00 00 00

Mirroring EB 90 00 11 00 ff 27 00 00 01 02 03 04 00 00 00 00

180 degrees rotate EB 90 00 11 00 ff 27 00 00 01 02 03 05 00 00 00 00

Factory Reset: EB 90 00 12 00 ff 21 00 00 00 00 00 00 00 00 00 00 00 00