IMAGE PROCESSOR CONTROLER

Introduction

We processor The main function is to splice multiple display units together into a logic displayer of ultrahigh resolution, and to realize multiple screens and scenarios of optional position and size through opening windows on the basis of this ultrahigh-resolution displayer, which can also ensure that image quality in each screen is excellent. It can show the entire electronic map, geographical information system, industrial flow chart and industrial monitoring information and other data of ultrahigh resolution.

Main features of the Processor

◆Pure hardware structure of FPGA, steady and reliability
With excellent image processing performance, completely avoid troubles

◆Support multiple video signals
It supports DVI, HDMI, VGA, AV, SDI, and other video signal for accessing

◆Flexible board design, random combinations
support hot plug, convenient maintenance Removable board card matches with cases of different sizes, which can fully meet system requirements of different sizes. Cases make space for expanding and reducing capacity at any time. It is designed with exclusive card channel, system modules, such as input card, output card, control card, fan and power supply.

◆Support splicing freedom and active windows in optional position in full screen, all windows are allowed to roam free, overlap, magnify and narrow down, no regional and hierarchical constraints, and no size and proportion limits.

Instruction of port

(1) Video input signals

This device supports video signal inputs, as shown in the following table:

Input port	Description
DVI input	Digital interface, support 1920*1080P@60HZ
VGA input	DB-15M analog interface, support 1920*1080P@60HZ
HDMI input	Digital interface, support 1920*1080P@60HZ
CVBS-8 input	BNC interface, supported video format: PAL/NTSC/SECAM
CVBS-2 input	BNC interface, supported video format: PAL/NTSC/SECAM
YPbPr	High-definition color component interface,support 1920*1080P@60HZ

(2) Video output signals

This device supports video signal outputs, as shown in the following table:

Output port	Description
DVI output	Digital interface, support digital signal 1920*1080P@60HZ
HDMI output	Digital interface, support HD signal, able to output HDMI signals through the adapter

(3) Control port signals

Control port	
Network interface	Users can control the PC software via LAN or directly using a computer.
RS232	Users can connect the related equipment devices through serial port for joint control.

Hardware connection diagram

Specification

Item		
Input		Support HDMI/VGA/BNC/VIDEO/DVI
Card output slot		Support HDMI/DVI
Maximum power consumption		200W
Maximum weight		30KG
Control type	Interface Type	RJ-45 Network interface; Standard industry interface RS-232
	Control protocol	Network communication protocol; Serial communication protocol
	Control software	software
Environmental parameters	Temperature	-10℃~70℃
	Humidity	0-95%(No condensation)
	Elevation	<1000 feet (3048 meters)
Other parameters	Working voltage	AC110－240V 50-60HZ
	Mean time between failures	60000 hours