NOVASTAR

Specification
NovaStar LED Display Controller S1

Rev1.0.0   2017/07/26

Overview

With multiple I/O and control interfaces, controller S1 is ideal for different applications. It has higher data transmission bandwidth. One coaxial cable can support 1920×1080@60Hz making the LED display connection simpler. Benefiting from the SerDes technology, controller S1 has lower frame latency and is especially designed for high-end LED display applications.

Features

- The inputs of the S1 include 3G-SDI×1, HDMI×1, DVI×1 and support input resolutions up to 1920×1080@60Hz.
- The outputs of the S1 include BNC×2 pairs.
- Low latency feature, the whole system including S1 and TR100 only 1 frame.
- The loading capacity: 2.3 million pixels.
- Capable of cascading multiple controllers to load a large screen.
- Support pixel-level calibration technology.
- The system can be configured with a knob and a button on the front panel. Computer software for system configuration is not necessary.
- The OLED display makes operations much easier.
- Support the hardware backup solution.

Appearance

Rear panel

| Inputs | DVI×1 | ▪ Single-link DVI
▪ User-defined resolution settings
Horizontal resolution up to 3840 pixels
Vertical resolution up to 3840 pixels |
| | HDMI×1 | ▪ Standard HDMI 1.4 Input
▪ Supports 8-bit/12-bit |

		For 8-bit, support for RGB 4:4:4 1080P For 12-bit, support for YCbCr 4:2:2 1080P.
	SDI×1	▪ Supports 3G-SDI ▪ SDI Loop
Outputs	BNC×4	▪ 2-channel outputs and 2-channel inputs, with each pair channel supporting bandwidth up to 3.25G. ▪ The loading capacity of one pair channel is up to 1920X1080@60Hz. Of the two pairs channels, one is primary and the other is backup. ▪ Supports low latency. The maximum delay of the system is 1 frame. The maximum transmission distance of the coaxial cable is 100 meters.
GenLock	BNC×2	▪ Supports GenLock IN & LOOP
Control	RS232(Baud rate 115200Bps)/ USB(cascading) / RJ45 (TCP/IP)	
Power Requirements	Operating voltage	100V-240V AC@50/60Hz
	Operating current	1.5A
	Power	20W
Dimensions &Weight	Space requirements	1RU
	Size(mm)	482.6X288.5X45
	Weight	2.55 Kg
Operating Environment	Temperature	-4℉-140℉(-20°C-60°C)
	Humidity	10%-90% non-condensing