



X16 Controller

Specification

X16

Overview

X16 is a professional LED display controller. It possesses powerful video signal receiving, splicing and processing capacities, and supports multiple signal inputs, in which the maximum input resolution is 4K@4096×2160 pixels. It supports digital ports (HDMI, DVI, SDI), and seamless switching between signals. It supports splicing, broadcast quality scaling, and seven-pictures displays.

X16 adopts 16 Gigabit Ethernet outputs, and it supports large LED displays of 8192 pixels in maximum width/height. Meanwhile, X16 is equipped with a series of versatile functions which can provide flexible screen control and high-quality image displays. It can be perfectly applied to high-end rental displays and high-resolution LED displays.

Features

- Supports various digital signal ports, including 1×HDMI 2.0, 4×DVI, 2×SDI
- Supports input resolutions up to 4096×2160@60Hz
- Loading capacity: 8.88 million, maximum width/height: 8192 pixels
- Supports arbitrary switching of video sources; the input images can be spliced and scaled according to the screen resolution
- Supports seven-pictures displays, the location and size can be adjusted freely
- Supports HDCP 2.2
- Dual USB2.0 for high speed configuration and easy cascading among controllers
- Supports brightness and chromaticity adjustments
- Supports improved gray-scale performance at low brightness
- Compatible with all receiving cards, multifunction cards, and optical fiber transceivers of Colorlight

Hardware

The Front Panel



| No. | Name | Function |
|-----|----------------|--|
| 1 | 3.5-inch LCD | Displays the operation menu and system information |
| 2 | Knob | Turn knob to select or adjust |
| 3 | Function Keys | OK: Enter key ESC: Escape current operation or selection Bright: Brightness option Black: Blank screen Lock: Lock keys |
| 4 | Selection Keys | HDMI/DVI1/DVI2/DVI3/DVI4/SDI1/SDI2: Video source selection Mode: Output mode selection of images Freeze: Freeze screen |
| 5 | Power Switch | Power switching for equipment |

The Back Panel



| Input Interface | | |
|-----------------------|--------------|--|
| 1 | HDMI | HDMI 2.0 input, EIA/CEA-861 Standard, in accordance with HDMI 2.0 standard, supports 4096×2160@60Hz, supports HDCP |
| 2 | DVI | 4 DVI inputs, VESA Standard (support 1920×1200@60Hz), supports HDCP |
| 3 | SDI | 2 SDI-3G inputs, 1920×1080P |
| Output Interface | | |
| 1 | Port1-16 | RJ45, 16 Gigabit Ethernet outputs |
| Controlling Interface | | |
| 1 | LAN | Network control (communication with PC, or access network) |
| 2 | USB IN | USB input, which connects with PC to configure parameters |
| 3 | USB OUT | USB output, cascading with the next controller |
| 4 | Genlock | Genlock signal input ensures synchronism of display image |
| 5 | Genlock Loop | Genlock synchronous signal loop output |
| Power | | |
| 1 | AC 100~240V | AC Power Interface |

4K Input Boards (Optional)

- X16 (Standard): 1×HDMI 2.0 + 4×DVI
- X16B (Customized): 8×DVI
- X16C (Customized): 2×HDMI 2.0

Specifications

| | |
|-------------------------|-----------------|
| Size | 2U standard box |
| Input voltage | AC 100~240V |
| Rated Power Consumption | 80W |
| Working Temperature | -20℃~60℃ |
| Weight | 6.8kg |

Dimension

Unit: mm

