DP-X26m

LED Video Controller

Description

The DP-X26m is an Ultra-4K LED video controller featuring powerful video signal input and processing capabilities. It supports both 4K and 2K video signal inputs and offers a maximum loading capacity of up to 17.03 million pixels. The controller provides two output options: Ethernet port output and optical port output, enabling flexible configuration to meet diverse user requirements. In addition, the DP-X26m integrates a range of rich and practical features, delivering flexible screen control and high-quality image display for professional LED display applications.

Features

- Delivers up to 4096 × 2160 @ 60Hz input resolution.
- Equipped with 2 × 4K inputs (DP 1.2 and HDMI 2.0) and 4 × 2K inputs (HDMI 1.4 and DVI).
- Includes a USB port for USB flash drive playback.
- Provides output via 26 Gigabit Ethernet ports or 3 optional 10G optical ports.
- Handles a maximum loading capacity of up to 17.03 million pixels.
- Features independent audio input and output.
- Enables audio extraction from HDMI and DP signals.
- Allows up to 6 display windows with layering and overlay.
- Enables flexible window roaming and scaling with a minimum resolution of 64 × 64.
- Supports video cropping and seamless switching with adjustable cropping size.
- Provides precise color management with adjustable color gamut (requires compatible receiving cards).
- Integrates video synchronization and phase-lock technology.

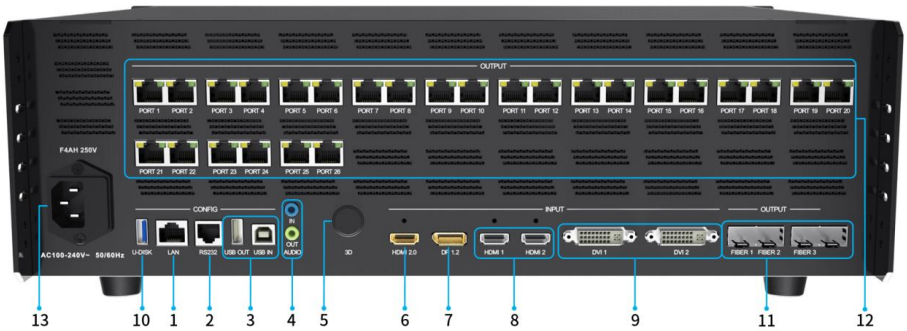
- Allows brightness and color temperature adjustment.
- Offers 3D display (optional).
- Incorporates low-brightness high-grayscale technology.
- Allows saving and recalling up to 128 scenes.
- Supports USB playback and firmware upgrade.
- Offers Bluetooth remote control (optional).
- Enables control via USB, RS232, LAN, and mobile APP.

Specifications

Model	DP-X26m
Video Input	2 × 4K (DP 1.2, HDMI 2.0); 4 × 2K (HDMI 1.4, DVI)
Max. Input Resolution	4096 × 2160 @ 60Hz
Output	26 × Gigabit Ethernet or 3 × 10G Optical Ports (Selectable)
Loading Capacity	17.03 Million Pixels
Audio	1 × Audio Input, 1 × Audio Output; HDMI/DP Audio Extraction
Display Functions	Up to 6 Windows, Layering & Overlay, Roaming & Scaling (min. 64 × 64)
Video Processing	Cropping and seamless switching
Image Adjustment	Color management, brightness & color temperature adjustment
Advanced Features	Video sync & phase-lock, low-brightness high grayscale, 3D (optional)
Control	USB, RS232, LAN, Mobile APP; Bluetooth (optional)
Power Supply	AC 100–240 V~, 50/60 Hz
Power Consumption	80W
Operating Temperature	-20°C to 50°C
Storage Temperature	-30°C to 80°C
Humidity	0–80% RH (working), 0–90% RH (storage), non-condensing
Product Dimensions (W×H×D)	482.6 mm (19") × 133.3 mm (5.3") × 385.0 mm (15.2"), Excluding Feet Pads
Package Dimensions (W×H×D)	560.0 mm (22.1") × 240.0 mm (9.5") × 480.0 mm (18.9")
Net Weight	6.25kg
Gross Weight	8.95kg

Front / Rear Panel

No.	Name	Description
1	LCD Display Screen	Display the operation menu and system information
2	Knob	• Press the knob to enter a submenu or confirm a selection. • Rotate the knob to select a menu item or adjust a parameter.
3	Function Keys	• **OK**: Confirm Button • **Bright**: Adjust brightness • **ESC**: Exit the current operation • **Black:** Display black screen on output • **Lock:** Lock front panel buttons • **Freeze:** Freeze the output image. • **HDMI 2.0 / DP / HDMI 1 / HDMI 2 / DVI 1 / DVI 2:** - In single-screen mode, press to switch directly to the corresponding input signal. - In USB playback mode, some buttons can be used as Play , Stop , Previous , and Next function keys. • Signal: View the signal status. • Media: Media playback function key. • Mode: Select preset scenes.
4	On/Off Mode	Power Switch



Control Interface		
1	LAN	RJ45 port for connection to a local area network (LAN).
2	RS232	RJ11 (6P6C) interface*, used for connection to a central control system.
3	USB IN	USB 2.0 Type-B interface for connecting to a computer for parameter configuration or cascade input.
	USB OUT	USB 2.0 Type-A interface for cascade output.

Audio Interface		
4	AUDIO IN	3.5 mm audio jack for inputting audio signals from devices such as computers.
	AUDIO OUT	3.5 mm audio jack for outputting audio signals to devices such as active speakers. - Supports audio extraction from HDMI and DP signals.
3D Interface		
5	3D*	Outputs 3D synchronization signal (optional), used with active 3D glasses.
Input Interface		
6	HDMI 2.0	• 1 × HDMI 2.0 input, backward compatible with HDMI 1.4 and HDMI 1.3 • Maximum input resolution: 4096 × 2160 @ 60 Hz Minimum input resolution: 800 × 600 @ 60 Hz Maximum pixel clock: 600 MHz • Custom resolutions supported: - Maximum width: 8192 (8192 × 1080 @ 60 Hz) - Maximum height: 8192 (1080 × 8192 @ 60 Hz) • Supports independent EDID configuration and management, compliant with EDID V1.3 standard • Supports audio input • HDR not supported • Interlaced signal input not supported
7	DP 1.2	• 1 × DP 1.2 input • Maximum resolution: 4096 × 2160 @ 60 Hz Minimum input resolution: 800 × 600 @ 60 Hz Maximum pixel clock: 600 MHz • Custom resolutions supported: - Maximum width: 8192 (8192 × 1080 @ 60 Hz) - Maximum height: 8192 (1080 × 8192 @ 60 Hz) • Supports independent EDID configuration and management, compliant with EDID V1.3 standard • Supports audio input • HDR not supported • Interlaced signal input not supported
8	HDMI1, HDMI2	• 2× HDMI 1.4 input • Maximum resolution: 1920 × 1200 @ 60 Hz Minimum input resolution: 800 × 600 @ 60 Hz Maximum pixel clock: 165 MHz • Custom resolutions supported: - Maximum width: 4096 (4096 × 512 @ 60 Hz) - Maximum height: 4096 (512 × 4096 @ 60 Hz) • Supports independent EDID configuration and management, compliant with EDID V1.3 standard • Supports HDCP 1.4, with backward compatibility • Supports audio input • Interlaced signal input not supported
9	DVI 1, DVI 2	• 2 × DVI inputs

		• Maximum resolution: 1920 × 1200 @ 60 Hz Minimum resolution: 800 × 600 @ 60 Hz Maximum pixel clock: 165 MHz • Custom resolutions supported: - Maximum width: 4096 (4096 × 512 @ 60 Hz) - Maximum height: 4096 (512 × 4096 @ 60 Hz) • Supports independent EDID configuration and management, compliant with EDID V1.3 standard • Supports HDCP 1.4, with backward compatibility • Interlaced signal input not supported
10	U-DISK	• USB port, plays videos/images stored in a USB drive • Supported formats: NTFS, FAT32, exFAT • Image formats: JPEG, PNG, WEBP,GIF, BMP • Image resolution: - Maximum: 4096 × 2160 @ 60 Hz • Supported video formats: 3gp, avi, flv, m4v, mkv, mp4, tp, ts, vob, wmv, mpeg - Supported video codecs: MPEG-1/2, MPEG-4, H.264/AVC, H.265/HEVC, Google VP8, Motion JPEG - Supported audio codecs: MPEG Audio, Windows Media Audio, AAC Audio, AMR Audio • Video resolution: - Maximum: 4096 × 2160 @ 60 Hz (formats including H.264/AVC, MVC, H.265/HEVC) - Maximum: 1920 × 1080 @ 60 Hz (formats including MPEG-1/2, MPEG-4, Google VP8, VC-1)
Output Interface		
11	FIBER 1 FIBER 2 FIBER 3	• 3× 10G Fiber Optic Interface - FIBER 1 corresponds to PORT 1–10 Gigabit Ethernet outputs - FIBER 2 corresponds to PORT 11–20 Gigabit Ethernet outputs - FIBER 3 corresponds to PORT 21–26 Gigabit Ethernet outputs • Requires an optional 10G single-mode optical module, supporting dual LC fiber connectors with a wavelength of 1310 nm and a transmission distance of up to 2 km. * The rightmost fiber interface is reserved and currently not functional.
12	PORT 26	• 26× 1G Ethernet ports • Loading capacity: - Single port: 655,360 pixels Total: 17.03 million pixels 8-bit output: - Output at 60 Hz, 8-bit supports 650,000 pixels - Output at 120 Hz, 8-bit supports 320,000 pixels - Output at 240 Hz, 8-bit supports 160,000 pixels - Maximum width: 16,384 pixels, maximum height: 8,192 pixels • Recommended cable length (CAT5e or higher): ≤100m

		• Supports redundancy backup
Power Interface		
13	AC100-240V	Power input: 100–240 V~, 50/60 Hz, with built-in power protection circuitry