

Jupiter Fusion Catalyst 4500H

InFocus

Award-Winning Display Wall Processor for HDCP

The Fusion Catalyst™ 4500H adds support for the display of HDCP protected content to the Fusion Catalyst 4500 line of display wall processors. Users and industry pundits around the world have called the award-winning Fusion Catalyst product line the best-in-class since its introduction in 2010.

Speed, Flexibility, Perfection, Plus HDCP

The Fusion Catalyst 4500H features bandwidth that reaches 336 Gbps, delivering the high resolution, high frame rate performance that users have come to expect from Jupiter Systems. The system is built around a PCI Express 2.0 chassis with 7 powerful, high speed slots, providing faster graphics, real time HD/SD/DVI/RGB frame rates, and better overall system performance than anything in its class. Redundant power supplies maximize system uptime. Featuring the performance and quality for which Jupiter is known, this is the solution for projects both large and small.

Add up to 4 Fusion Catalyst 4500E Expansion Chassis to a Fusion Catalyst 4500H CPU Chassis to handle up to 216 inputs and up to 48 outputs.

And with an Intel E5 Six Core Xeon and Windows 7 onboard, you can run even the most demanding applications directly on the video wall. An optional second Xeon CPU is available for even more compute power.

Other models in the Fusion Catalyst 4500 line include the FC4500B for installations without HDCP protected content to display and the FC4500C which supports Jupiter's Canvas collaborative visualization software.



Fusion Catalyst 4500

Supports ControlPoint™

The Fusion Catalyst 4500H supports Jupiter's ControlPoint™ display wall management software. Deployed in over 10,000 of the most demanding installations around the world, ControlPoint is the most complete and powerful solution for managing the display wall and everything on it.

ControlPoint offers an intuitive, object-based GUI. Defined objects such as DVI, RGB, HD, and video inputs, streaming video inputs, web browser windows, image viewers, and local and remote application windows can be dragged and dropped onto the display mimic. Setting up complex combinations of graphical and real-time data is simple, quick and intuitive. Toolbar shortcuts to commonly used functionality are provided to make adjustments to windows even more convenient.



Fusion Catalyst in Action

The Fusion Catalyst 4500H is the ideal solution for projects of any size with HDCP as a requirement. Each 3RU rack-mountable CPU Chassis and Expansion Chassis has 7 PCI Express 2.0 slots. Adding up to 4 Expansion Chassis to a CPU Chassis enables up to 48 outputs. With optional Quad HD Decoder Cards, Fusion Catalyst 4500H can support up to 108 video streams. Most popular IP cameras and encoders are supported, as are desktop PC streams with real-time updates.

Optional HDCP Input Cards support up to 54 HDCP inputs via Single-Link DVI-D, or HDMI on DVI-D, connectors.

Optional Non-HDCP Dual-Link DVI-I Input Cards support up to 54 non-HDCP DVI-I, progressive scan component HD, or analog RGB inputs.

Up to 216 video non-HDCP inputs can be accommodated using optional Octal SD Video Input Cards.

Specifications*

System Architecture Chassis	PCI Express 2.0 chassis with 7 high speed slots for input, output, or auxiliary cards
CPU Board Processor	Intel E5 Six Core Xeon CPU, Optional 2nd Intel E5 Six Core Xeon CPU
CPU Board System Memory	24GB RAM per CPU standard, Up to 96GB RAM per CPU optional
Drives	500GB hard disk drive standard, larger HDDs optional, Optional 256GB and 512GB solid state drives, Optional 2nd and 3rd drives, Optional RAID1 array with hot spare
Optical Storage	DVD-RW/CD-RW
Network Interface: Ethernet	Standard dual 100/1000 Mbps RJ45 ports
Input Devices (USB)	104-key keyboard and mouse
Expansion Chassis (Optional)	PCI Express 2.0 chassis with 7 slots for input or output cards
Graphics Inputs: Quad HD Decoder Input Card (Optional)	Up to 108 inputs in 1 CPU Chassis + 4 Expansion Chassis, 1 GigE connection, shared across 4 decoders, Supports real-time decoding of HD or SD streams, Supports most popular IP cameras and encoders
Single-Link DVI-D Input Card with HDCP Support (Optional)	Inputs: Up to 54 HDCP inputs in 1 CPU Chassis + 4 Expansion Chassis Format: Single-Link DVI-D, or HDMI on a DVI-D connector, up to 1920x1080 Pixel rate: Digital: Up to 165 MHz Pixel format: 32 bits per pixel
Dual-Link DVI/RGB/HD Input Card without HDCP Support (Optional)	Inputs: Up to 54 non-HDCP inputs in 1 CPU Chassis + 4 Expansion Chassis Format: Dual-Link DVI up to 2560x1600, Single-Link DVI up to 2048x1200, progressive scan component HD (480p, 720p, 1080p), and analog RGB with any sync type (composite, separate, sync on green) up to 2048x1200 Pixel rate: Digital: Up to 270 MHz, Analog: Up to 210 MHz Pixel format: 32 bits per pixel Windows: 4 destination windows per card
Octal SD Video Input Card (Optional)	Inputs: Up to 216 non-HDCP inputs in 1 CPU Chassis + 4 Expansion Chassis Input format: NTSC, PAL Windows: 16 destination windows per card Octal Video Connection Module: Dual BNC-F connectors support S-Video or Composite on 1RU 19" rackmount panel with 2 BNC sub-panels. Each sub-panel has 16 BNC connectors for 8 Composite or 8 S-Video signals
Fusion Catalyst 4500 Output Card	Outputs: Up to 48 outputs in 1 CPU Chassis + 4 Expansion Chassis Resolution: Digital: Up to 1920x1080 pixels per output Color Depth: 32 bits per pixel Output Signal: DVI-D single-link connector or HDMI connector, depending on configuration
Rackmount CPU Chassis & Expansion Chassis	Dimensions: 5.25" H x 19" W x 25.5" D (13.3 cm x 48.3 cm x 64.8 cm) Weight: 53 lbs. (24.1 kg.) Shipping Weight: 75 lbs. (34.1 kg.)
Operating Range - Temperature	Operating: 32°F - 104°F (0°C - 40°C), Non-operating: 14°F - 150°F (-10°C - 66°C)
- Humidity	10-90% non-condensing
- Altitude	Up to 10,000 feet (3,048.0 m)
Electrical	
- Redundant power supplies	High efficiency (94%) with PMBus and I2C
- Input Voltage	100-240 VAC, auto-ranging power supply
- Line Frequency	50-60 Hz
- Power Consumption	500 Watts nominal per chassis
Regulatory	
- United States	UL 60950 listed, FCC Class A
- Canada	cUL CSA C22.2, No. 60950
- International	CE Mark, CB Certificate, IEC 60950, CCC, VCCI

* Product specifications, terms, and offerings are preliminary and subject to change at any time without notice.