

# Jupiter Fusion Catalyst 4500B

InFocus

## The New Standard in Display Wall Processors

The Fusion Catalyst™ 4500B is the base model and standard bearer of 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

The Fusion Catalyst 4500B 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 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 & small.

Add up to 4 Fusion Catalyst 4500E Expansion Chassis to a Fusion Catalyst 4500B CPU chassis to handle up to 216 inputs and up to 96 outputs.

Other models in the Fusion Catalyst 4500 line include the FC4500C, which supports Jupiter's Canvas collaborative visualization software, and the FC4500H for display walls with HDCP protected content to display.



## Fusion Catalyst 4500

### Supports ControlPoint™

The Fusion Catalyst 4500B 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 4500B is the ideal solution for display wall projects of any size in which HDCP is not 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 very large configurations.

Driving a large display wall? The Fusion Catalyst 4500B supports up to 96 HD outputs. With optional Quad HD Decoder

Cards, Fusion Catalyst 4500B can support up to 108 video streams. Most popular IP cameras and encoders are supported, as are desktop PC streams with real-time updates.

With optional Dual-Link DVI-I Input Cards, Fusion Catalyst 4500B can support up to 54 DVI-I, progressive scan component HD, or analog RGB inputs. Up to 216 video inputs can be accommodated using optional Octal SD Video Input Cards.

## Specifications\*

<b>System Architecture Chassis</b>	PCI Express 2.0 chassis with 7 high speed slots for input, output, or auxiliary cards
<b>CPU Board Processor</b>	Intel E5 Six Core Xeon CPU, Optional 2nd Intel E5 Six Core Xeon CPU
<b>CPU Board System Memory</b>	24GB RAM per CPU standard, up to 96GB RAM per CPU optional
<b>Drives</b>	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
<b>Optical Storage</b>	DVD-RW/CD-RW
<b>Network Interface: Ethernet</b>	Standard dual 100/1000 Mbps RJ45 ports
<b>Input Devices (USB)</b>	104-key keyboard and mouse
<b>Expansion Chassis (Optional)</b>	FC4500E Expansion Chassis: PCI Express 2.0 chassis with 7 slots for input or output cards
<b>Quad HD Decoder Input Card (Optional)</b>	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
<b>Dual DVI/RGB/HD Input Card (Optional)</b>	Inputs: Up to 54 inputs in 1 CPU Chassis + 4 Expansion Chassis Format: Dual-Link DVI-D up to 2560x1600, Single-Link DVI-D 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
<b>Octal SD Video Input Card (Optional)</b>	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
<b>Fusion Catalyst 4500 Output Graphics Card</b>	Outputs: Up to 96 in 1 CPU Chassis + 4 Expansion Chassis Resolution: Digital: 640x480 to 1920x1080 pixels per output Color Depth: 32 bits per pixel Output Signal: DVI-D single-link connector or HDMI connector, depending on configuration
<b>Rackmount CPU Chassis &amp; Expansion Chassis</b>	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.)
<b>Operating Range - Temperature</b>	Operating: 32°F - 104°F (0°C - 40°C), Non-operating: 14°F - 150°F (-10°C - 66°C)
<b>- Humidity</b>	10-90% non-condensing
<b>- Altitude</b>	Up to 10,000 feet (3,048.0 m)
<b>Electrical</b>	<b>- Redundant power supplies</b> High efficiency (94%) with PMBus and I2C
<b>- Input Voltage</b>	100-240 VAC, auto-ranging power supply
<b>- Line Frequency</b>	50-60 Hz
<b>- Power Consumption</b>	500 Watts nominal per chassis
<b>Regulatory</b>	<b>- United States</b> UL 60950 listed, FCC Class A
<b>- Canada</b>	cUL CSA C22.2, No. 60950
<b>- International</b>	CE Mark, CB Certificate, IEC 60950, CCC, VCCI

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