Fusion Catalyst™ 4500C
Display Wall Processor for Canvas

Speed, Flexibility, Perfection, Plus Canvas

The Fusion Catalyst™ 4500C is built specifically for use with Canvas, Jupiter's award-winning collaborative visualization solution. 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.

The Fusion Catalyst 4500C 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 and small.

Add up to 4 Fusion Catalyst 4500E Expansion Chassis to a Fusion Catalyst 4500C CPU chassis to handle up to 108 IP streaming 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 running ControlPoint™ for standalone display walls and the FC4500H for standalone display walls with HDCP protected content to display.

Supports Canvas

The Fusion Catalyst 4500C supports Jupiter's Canvas collaborative visualization suite, providing access to all of the visual business intelligence made available in the user's network–live streams from network cameras and mobile devices, application screens from PCs, and real-time data feeds. Users at the display wall can collaborate with distant colleagues on their PCs, smartphones, tablets, and in conference rooms equipped with Canvas CRS-4K, tapping into a 360° view of operations. And now Canvas integrates with Microsoft Lync©.

Canvas brings a rich set of familiar tools for collaboration that no other system has. Users can annotate directly on live video streams, chat by text or voice, and collaborate on documents in real-time.

Fusion Catalyst™ 4500C In Action

The Fusion Catalyst 4500C is the ideal solution for projects of any size employing Canvas.

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 4500C supports up to 48 HD outputs.

With optional Quad HD Decoder Cards, Fusion Catalyst 4500C can support up to 108 video streams for sharing with other Canvas users. Most popular IP cameras and encoders are supported, as are desktop PC streams with real-time updates.

The Fusion Catalyst 4500C is also valuable when users want to present content to an in-room audience outside of a Canvas session. With optional Dual-Link DVI Input Cards, up to 54 DVI-D HD inputs are supported for display on the local display wall only. Inputs via the DVI connection are not shareable in Canvas.

Jupiter by InFocus

Fusion Catalyst™ 4500C Specifications

CPU Chassis

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

System Memory
24GB RAM per CPU standard
Up to 96GB RAM per CPU optional

Storage

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)

FC4500E Expansion Chassis

Chassis
PCI Express 2.0 chassis with 7 slots for input or output cards

Graphics Inputs

Quad HD Decoder Input Card (Optional)

Inputs
Up to 108 inputs in 1 CPU Chassis + 4 Expansion Chassis
Supports real-time decoding of HD or SD streams
Supports most popular IP cameras and encoders

Dual-Link DVI Input Card without HDCP Support for Local Display Only (Optional)

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

Pixel rate
Digital: Up to 270 MHz

Pixel format
32 bits per pixel

Windows
4 destination windows per card

Graphics Outputs

Fusion Catalyst 4500 Output Card

Outputs
Up to 48 non-HDCP outputs with Canvas collaborative visualization software in 1 CPU Chassis + 4 Expansion Chassis

Resolution
Digital: 1920x1080 pixels per output

Color Depth
32 bits per pixel

Output Signal
DVI-D single-link connector or HDMI connector, depending on configuration

Other

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

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