Fusion Catalyst™ 8000
Display Wall Processor

Speed, Capacity, Perfection

Introducing Fusion Catalyst™ 8000, the fastest, most powerful display wall processor yet. Users and industry pundits around the world have called the Fusion Catalyst product line the best-in-class since its introduction in 2010. The newest member of the family, the Fusion Catalyst 8000, is the best of the best.

With bandwidth that reaches 320 Gbps, the Fusion Catalyst 8000 delivers more high resolution windows at full frame rates than any competitor. And with up to 80 slots, no project is too big. Featuring the award-winning performance and quality for which Jupiter is known, this is the solution for the most demanding projects.

The Fusion Catalyst 8000 features Second Generation PCI Express slots and a true, non-blocking Switch Fabric communication infrastructure. It provides more expandability, faster graphics, real time HD/SD/DVI/RGB frame rates, and better overall system performance than anything in its class.

And with Dual Quad Core Xeons and Windows 7 onboard, you can run demanding applications such as SCADA directly on the video wall.

Fusion Catalyst™ 8000 In Action

The numbers speak for themselves. Each 1RU rack-mountable Fusion Catalyst™ 8000 CPU can support up to 4 Fusion Catalyst 8000 Switch Fabric Chassis for a total of 80 PCI Express 2.0 4-lane slots.

At a full 80 slots, the Fusion Catalyst 8000 can support up to 120 outputs at 2560x1600 pixels at 32 bits. Each Dual DVI-I Output Card has 256MB of onboard graphics memory for flawless image quality.

With optional Dual-Link DVI-I Input Cards, Fusion Catalyst 8000 can support up to 100 DVI, progressive scan component HD, or analog RGB inputs. Up to 400 video inputs can be accommodated using optional Octal SD Video Input Cards.

With optional Quad HD Decoder Cards, Fusion Catalyst 8000 can support up to 200 HD or SD streams in MPEG-2, MPEG-4, MJPEG, and H.264 formats. Most popular IP cameras and encoders are supported, as are desktop PC streams with real-time updates.

Optional CatalystLink™ cards support PixelNet® HD-SDI and DVI Input Nodes with remote KM capability.

Safeguard Operations with ControlPoint Security™

Fusion Catalyst™ processors ship with ControlPoint Security™, airtight security tools indigenous to Jupiter's ControlPoint™ wall management software suite.

ControlPoint Security features LDAP integration, providing secure login with the standard user name and password controlled by the customer's IT department.

With security defined at the object level, managers can create discrete management and access permissions for wall segments, layouts, inputs, applications, and remote cursor control.

User activity and event logging is performed at sub-second resolution, allowing thorough forensic analysis.

Jupiter

Fusion Catalyst™ 8000 Specifications

CPU Chassis

CPU Board

Processor
Dual Intel Quad Core Xeons, 2.33 GHz

System Memory
8GB RAM standard; Optional 16, 32, 64GB

Disk Storage

Hard Drive
2 hot-swappable 128GB, solid state drives (SSD) in RAID 1 array
Optional 3rd SSD drive
Optional RAID 5
Optional 320GB, SATA-300, 7200 RPM, hard disk drives

Optical Storage
DVD-RW/CD-RW

Network Interface

Ethernet
Standard dual 10/100/1000 Mbps RJ45 ports; add up to four additional dual-port cards

Input Devices (USB)

Wireless 2.4 GHz104-key keyboard and laser mouse

Touch Panel Support

IP control protocols

CPU Chassis

Four PCI Express 8-lane slots for peripheral cards (Ethernet, Audio, RAID 5)

Connection to Switch Fabric Chassis

Four PCI Express 2.0 16-lane slots for connection to Switch Fabric Chassis

Switch Fabric Chassis

Input and Expansion Slots

PCI Express Input
16-lane PCI Express 2.0 inter-chassis connection

Expansion slots
20 slots in each Switch Fabric Chassis
Add up to 4 Switch Fabric Chassis to a CPU Chassis

Graphics I/O

Dual-Link DVI-I Output Card

Graphics memory
256 MB per dual-link output card

Number of outputs
Up to 120 with four Switch Fabric Chassis

Resolution
Digital: 640x480 to 2560x1600 pixels per output
Analog: 640x480 to 2048x1536 pixels per output
Custom output modes possible in both analog and digital

Color Depth
32 bits per pixel

Output signal
DVI-I connector (supports single-link and dual-link DVI, and analog VGA with adapter)

Dual DVI/RGB/HD Input Card (Optional)

Inputs
Up to 100 inputs

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 400 inputs

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

Quad HD Decoder Input Card (Optional)

Integrated HD & SD video decoding
4 GigE connections, 1 per decoder
Supports up to 200 HD or SD streams
Supports most popular IP cameras and encoders
Support for high resolution, real-time decoding of computer streams

CatalystLink™ Input Card (Optional)

For PixelNet® integration
Each CatalystLink card features 4 PixelNet ports and supports up to 8 PixelNet Input Nodes

Input format
Support for all PixelNet input types

Windows
4 destination windows per card

Other

Rackmount Chassis

Dimensions
FC8000 CPU: 7" H x 19" W x 22" D
(17.8 cm x 48.3 cm x 55.9 cm)
FC8000 Switch Fabric Chassis: 7" H x 19" W x 22" D
(17.8 cm x 48.3 cm x 55.9 cm)

Weight
FC8000 CPU: 51 lbs. (23.1 kg.)
FC8000 Switch Fabric Chassis: 51 lbs. (23.1 kg.)

Shipping weight
FC8000 CPU Chassis: 72 lbs. (32.7 kg.)
FC8000 Switch Fabric Chassis: 72 lbs. (32.7 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 Requirements

Input voltage
100-240 VAC, auto-ranging power supply

Line frequency
50-60 Hz

Power consumption
600 Watts, maximum per chassis

Regulatory

United States
UL 60950 listed, FCC Class A

Canada
cUL CSA C22.2, No. 80950

International
CE Mark, CB Certificate and Mark, IEC 60950, CCC, C-Tick, VCCI

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