

# Catalyst Element

## Catalyst Video Wall Processor



Catalyst element is the compact member of the Catalyst line and is ideal for small to medium-sized video wall installations such as control rooms, government command centers, surveillance rooms, and utility centers. The Catalyst element delivers the best-in-class solution for essential and critical control rooms as it can display any amount or type of data required to enhance operations.

- Enterprise grade Xeon processors
- Windows 10
- Up to 16 IP streams
- Up to 4 4K inputs
- Web/VNC/Application support
- HDCP compliant
- Standalone or Canvas Enterprise
- Compatible with PANA 21:9, 5K displays
- Compatible with LCD, LED, cubes and projectors display technologies
- Redundant power supplies
- Up to 8 outputs



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Supports up to 4 4K direct inputs

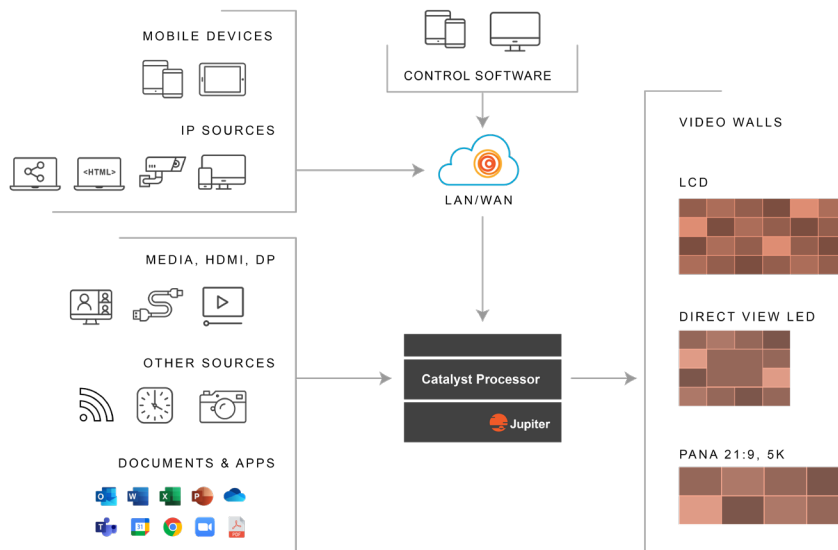


More 4K IP and direct inputs, more memory, and more power for unparalleled bandwidth speed



Decode up to 16 H.264 streams

## Architecture of a Catalyst Installation



HARDWARE	
CPU	Intel ES Xeon 6 Core 1.9 GHz or 10 Core 2.4GHz or 16 Core 2.9 GHz
RAM	48, 96, 192GB RAM, Supports 6 channels up to 192GB (32GB x 6) Default: 8GB x 6
Hard Drive (SSD)	250 or 500 or 1000 GB SSD
RAID	-
USB 3.0 Type-A	2
USB 2.0 Type-A	2
Audio	-
Network	Dual Intel X722+X557 2x 10/100/1000 MB/s operation Supports Wake on LAN function
PCI Slots	2 Full Height and 1 Half-Height
Form Factor	1RU
Humidity Altitude	10%-90%, non-condensing
Altitude	Up to 10,000 feet (3,048.0 m)
Power Supply	400W PSU Input: 100 - 240V AC Output: +3.3V/14A, +5V/16A, +12V/33A, +5Vsb/3A, -12V/0.3A DC
Operating Temperature	32°F - 104°F (0°C - 40°C)
Storage Temperature	14°F - 150°F (-10°C - 66°C)
Dimensions	1.75" H x 19" W 17.5" D (45mm x 483mm x 432mm)
Weight	10.4 lbs. (4.7 kg)
Shipping Weight	18 lbs. (8.2 kg)
Shipping Dimensions	6" H x 22" W x 24"D (153mm x 559mm x 610mm)
SOFTWARE	
Software OS	Windows 10 LTSC (Enterprise)
Management Software	Canvas
Encryption	SSL/TLS
Client Software	Desktop & Web
Application Support	Yes
API	TCP/RS232
Picture Viewer	Yes
Scrolling Text	Yes
Clock	Yes, multiple time zones
OUTPUTS	
Interface	8x DisplayPort 1.4 or 8x HDMI (full-size)
Max Output Resolution Per GPU	Up to 8x 5120x3200 @60Hz or 8x 4096x2160 @60Hz (HDMI)
Max 4K Outputs	8x at 4K   3840 x 2160 at 60 Hz
Max 5K Outputs	6x at 5K   5120 x 2160 at 60 Hz
Max Windows per display	16
DIRECT INPUT OPTIONS	
4 Channel HDMI Capture Board	4x 4096x2160 @60Hz(4:2:0) / 4096x2160 @30Hz / 3840x2160 @60Hz (4:2:0) / 3840x2160 @30Hz / 2560x1600 @60Hz
2 Channel DP Capture Board	2x 4096x2160 @60Hz / 4096x2160 @30Hz / 3840x2160 @60Hz / 3840x2160 @30Hz / 2560x1600 @60Hz
4 Channel SDI Capture Board	12G-SDI on connectors 2 & 4 3G-SDI, HD-SDI, SD-SDI on all connectors
Hardware Decoding Board	2x: 3840 x 2160 @ 60Hz, 4x: 3840 x 2160 @ 30Hz, 8x: 1920 x 1080 @ 60Hz, 16x: 1920 x 1080 @ 30Hz, 30+ SD Streams
Software Decoding (per system)	1x 3840x2160 @ 60Hz, 3x 3840x2160 @ 30Hz, 6x 1920x1080 @ 60Hz, 12x 1920x1080 @ 30Hz, 30+ SD Streams
Protocols	MPEG2, MPEG4, H.264/H265 (RTSP)
DESK REMOTE INPUTS	
ScreenShare (Desktop Sharing)	2
VNC	Inputs: Up to 16 VNC Streams, Server: Software included Color Depth: Up to 32 bits per pixel
Web	Inputs: Up to 16 web pages Browser: Embedded Chrome** or Internet Explorer
CERTIFICATIONS	
Regulatory Certifications	Planned (cULus, FCC, ICES, TAA, CE, WEEE)



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