

VideoSphere

EDGE

VideoSphere® Edge Encoders and Decoders from March Networks® integrate analog video cameras into an IP network, and manage the decoding and display of all video streams. The units enable organizations to leverage existing investments in analog cameras and cabling and migrate to all-IP video networking cost-effectively.

The Edge encoders work in concert with VideoSphere Video Management System (VMS) software running on industry-standard servers to archive all video, audio and data evidence. The architecture enables easy deployment of advanced video analytics and other industry-specific business intelligence applications.

REDUCED TOTAL COST OF OWNERSHIP

VideoSphere encoders use H.264 or MPEG-4 compression to consolidate and convert video from analog cameras onto a standard IP network. Organizations with large facilities can deploy VideoSphere Edge encoders to leverage cost-effective analog technology, and to replace lengthy coaxial cable runs with a single network connection, saving an organization as much as

30% in labor and cabling costs. The VideoSphere Edge 4 Blade Encoder supports a fully scalable, centralized solution for IP video networking in high-density analog camera environments utilizing any existing cable infrastructure.

OPERATIONS CONTROL CENTERS

The Decode Station is used together with VideoSphere SiteManager software to decode and control the display of up to 64 video streams, and is ideally suited to operations control centers. The decoder automatically requests adaptive video streams from any VideoSphere encoder or VMS, dependent on the network bandwidth available, and provides a robust solution that retains its settings and automatically reboots after a power outage.



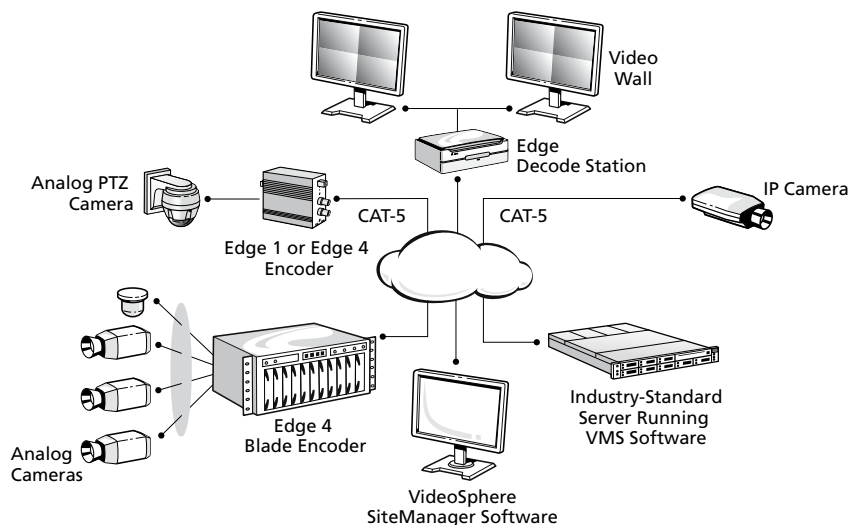
FEATURES

Edge Encoders

- Conversion of analog video to digital
- Up to 30 fps (NTSC) / 25 fps (PAL) @ D1 on each camera
- Flexible streaming options using H.264 or MPEG-4 video compression
- Compatible with leading third-party PTZ devices
- Bi-directional audio input/output
- Alarm inputs and relays for easy integration with access control systems
- Support for a range of embedded video analytic applications
- Power over Ethernet (PoE)
- Web browser interface available
- Constant, variable and adaptive bit rate options

Edge Decode Station

- Decoding of up to 64 simultaneous video streams
- Unlimited video wall management
- Intuitive operator interface for control centers
- Create main and spot monitor workstations
- Enables virtual matrix outputs



The VideoSphere Edge family of scalable encoders integrates analog cameras into IP video networks. The decoder manages video display monitors and walls.



VideoSphere Edge Encoders and Decoders

Technical Specifications



Model	Edge 1 Encoder / Decoder	Edge 4 Encoder / Blade Encoder	Decode Station
Frame rate	30 fps (NTSC) / 25 fps (PAL) @ D1	120 fps (NTSC) / 100 fps (PAL) @ D1	Any frame rate on up to 64 simultaneous video streams
Form factor	Standalone	Standalone / Blade	Standalone
Video output	BNC loopthrough / monitor out		DVI-I, RCA, VGA, RGB
Audio inputs/outputs	1/1	4/1	1 mic / 1 stereo
Alarms	1	4	
Relays	1	4	
Compression	4 simultaneous H.264 or MPEG-4 streams	Up to 12 simultaneous streams per encoder/blade ¹ including 1 H.264 and 2 MPEG-4 streams per channel ²	H.264, MPEG-4, M-JPEG
Supported resolutions	CIF; 2CIF; D1	CIF; 2CIF; D1 @ H.264 only	Monitor dependent
Embedded analytics	Optional	Optional	
PTZ control	1 x RS-485	1 x RS-485, 1 x RS-422	
USB ports			6
Ethernet	10/100 Mb/s	10/100 Mb/s	Gigabit
Internal storage	SD card slot	SDHC card slot	
Power over Ethernet	Yes	Yes	
Power supply	12 VDC (terminal) / PoE	12 VDC (terminal) / PoE	100 – 240VAC
Power consumption	4 W	5 W	90 W
Mounting options	Wall-mount or rack (1U, 4 slots)	Wall-mount included Blade rack (4U, 14 slots)	Rack-mount (1U, 2 slots)
Operating temperature	32 to 122°F / 0 to 50°C	32 to 122°F / 0 to 50°C (Unit) 32 to 104°F / 0 to 40°C (Blade/Rack)	50 to 95 °F / 10 to 35 °C
Shipping weight	1.1 lbs / 0.5 kg	1.3 lbs / 0.6 kg (Unit) 0.2 lbs / 0.1 kg (Blade) 3.3 lbs / 1.5 kg (Empty rack)	3.3 lbs / 1.5 kg
Dimensions (HxWxD)	1.3 x 4.25 x 5.39 in. / 3.3 x 10.8 x 13.7 cm	1.3 x 6.1 x 5.71 in. / 3.3 x 15.5 x 14.5 cm (Unit) 7 x 19 x 7.1 in. / 17.7 x 44.4 x 18.0 cm (Rack)	2.32 x 6.57 x 6.57 in. / 5.9 x 16.7 x 16.7 cm
Certifications	CE – EMC Directive 2004/108/EC, Standards EN55022, EN55024, EN50130-4, FCC Part 15 Subpart B, ICES-003, C-tick		

NOTE: ¹Maximum 4 streams/channel. Edge 4 Blade Encoder supports up to 56 channels (4 per blade).

²Enabled analytics may reduce number of available video streams.

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