

VPort 464 Series

Superior video performance, 4-channel industrial video encoders



Features and Benefits

- Each channel supports 2 D1 30 fps streams simultaneously, or merge 1 quad stream 30 fps image into 4 channels
- Video latency under 200 ms
- 2 Ethernet ports for cascading or Ethernet port redundancy
- DynaStream™ for optimized network efficiency
- ONVIF support for standardization and interoperability
- Local storage capability with microSD card slot
- Industrial design with -40 to 75°C operating temperature

Certifications



Introduction

The VPort 464 4-channel industrial video encoder uses the H.264 video compression algorithm to provide the best video quality on the market, but with a smaller bandwidth requirement than other video compression standards. In addition, to meet various requirements, each channel of the VPort 464 can support 2 video streams simultaneously or you can merge all 4 channels into 1 quad view stream using H.264 and MJPEG compression formats, providing greater flexibility for a variety of uses, including viewing, recording, and analysis. The rugged industrial design, which includes a -40 to 75°C operating temperature, IP30 protection, and industrial certifications, make the VPort 464 suitable for harsh environments.

The VPort 464 comes with two Ethernet ports and supports cascade mode and network redundancy. In addition, Moxa’s innovative DynaStream™ technology lets you change the video frame rate automatically, allowing you to control your network bandwidth budget and simplify network system management. The CBR Pro™ function guarantees the lowest packet loss for limited bandwidth transmissions to ensure that images will not exhibit the mosaic effect.

Specifications

Memory

microSD Slot	SDXC
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Input/Output Interface

Digital Input Channels	4
Digital Inputs	+13 to +30 V for state 1 -30 to +1 V for state 0 Max. input current: 8 mA
Relay Channels	2
Contact Current Rating	Resistive load: 1 A @ 24 VDC
Connector	Terminal block

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	2
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Ethernet Software Features

Protocols	TCP/IP IPv4/IPv6 UDP HTTP RTP/RTSP ARP UPnP FTP TFTP NTP Client DNS QoS IGMP v3 ICMP SNMPv1/v2c/v3 Modbus TCP HTTPS 802.1X NTCIP
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Security Functions

Password	User-level password protection
Filter	IP address
Authentication	802.1X
Encryption	HTTPS SSH

LED Interface

LED Indicators	STAT: Indicates if system is booted up properly or not Power 1: Power 1 on/off Power 2: Power 2 on/off FAULT: Can be configured to correspond to system alarm, power failure, or disconnected network Video: Video input signal PTZ: Indicates if PTZ or COM port data has been transmitted SD: Indicates if SD card was mounted successfully Network: 10 Mbps or 100 Mbps
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Serial Interface

PTZ Port	1, RS-232 or RS-422/485 port, terminal block connector, 115.2 kbps
COM Port	1, RS-232 or RS-485 port, DB9 male connector, 115.2 kbps
Console Port	1 RS-232 port, 10-pin RJ45 (115200, n, 8, 1)

Power Parameters

No. of Power Inputs	2
Input Voltage	Redundant dual inputs
Operating Voltage	12 to 32 VDC, 18 to 30 VAC
Input Current	1 A @ 12 VDC 0.3 A @ 32 VDC 0.92 A @ 18 VAC 0.56 A @ 30 VAC
Power Connector	2-pin terminal block

Video Interface					
Video Compression	H.264 (ISO/IEC 14496-10) or MJPEG				
Video Input	4, BNC connector (1.0 Vpp, 75 ohm)				
Video Output	via Ethernet				
Video Streams	2 independent H.264 or MJPEG video streams 1 quad (4-channel images) stream				
NTSC/PAL	Auto-sensing or manual				
Video Resolution and FPS (frames per second)		NTSC		PAL	
		Size	Max. FPS	Size	Max. FPS
	QCIF	176 x 112	30	176 x 144	25
	4CIF	704 x 480	30	704 x 576	25
	CIF	352 x 240	30	352 x 288	25
	VGA	640 x 480	30	640 x 480	25
	QVGA	320 x 240	30	320 x 240	25
	Full D1	720 x 480	30	720 x 576	25
	Quad View	1440 x 960	30	1440 x 1152	25
Video Viewing	DynaStream™ support for changing the video frame rate automatically CBR Pro™ for good image quality in limited bandwidth transmissions Adjustable image size and quality Timestamp and text overlay OSD (On Screen Display) position adjustable Maximum of 10 simultaneous unicast connections, 50 multicast clients Image tuning control: brightness, contrast, saturation, sharpness, noise reduction				
Audio Interface					
Audio Inputs	1 Line-in or MIC-in with 3.5 mm phone jack				
Audio Outputs	1 Line-out, with 3.5 mm phone jack				
Audio Format	Mono, PCM (G.711)				
Camera Software Development					
Video Standards	ONVIF Profile S				
Camera PAN/TILT/ZOOM					
PTZ Camera Control	Via PTZ port or COM port				
PTZ Control Functions	Pan, tilt, zoom, focus, move speed, preset position (max. 128 positions)				
PTZ Function Updates	Driver upload supported				
Protocols	Pelco D, Pelco P, Custom Camera				
Camera Alarm Software Features					
Intelligent Video	Camera tampering detection				
Video Motion Detection	3 independently configurable areas				
Scheduling	Daily repeat timing schedule				
Imaging	JPEG snapshots for pre/trigger/post alarm images				

Custom Alarms	HTTP event servers for setting customized alarm actions
FTP Messaging	Automatic transfer of stored images via FTP as event-triggered actions
Pre-Alarm Buffer	50 MB video buffer for JPEG snapshot images
Video Recording	Event recordings stored on the SD card

Software Requirements

Memory Size	1 GB
Operating System	Windows 7 or above
Browser	Internet Explorer 9.x or above
Multimedia	DirectX 9.0C or above

Physical Characteristics

Housing	Metal
Dimensions	80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)
Weight	1130 g (2.49 lb)
Installation	DIN-rail mounting Wall mounting (with optional kit)

Environmental Limits

Operating Temperature	Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Altitude	2000 m

Standards and Certifications

EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Freefall	IEC 60068-2-31
Safety	UL 60950-1
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

MTBF

Time	827,831 hrs
Standards	Telcordia SR332

Warranty

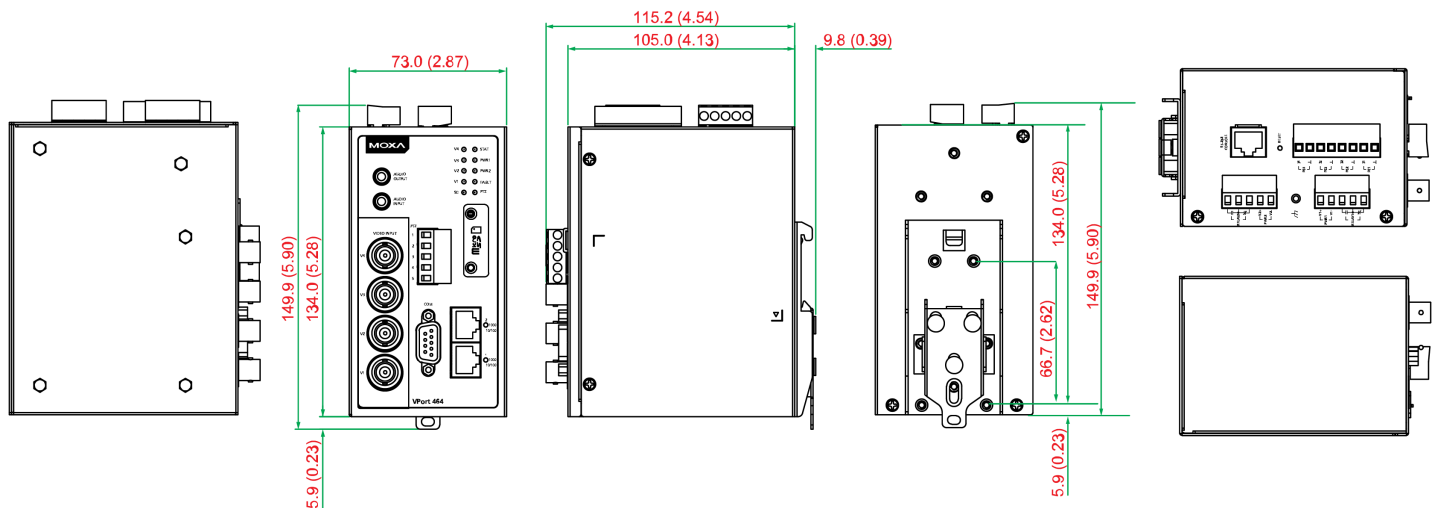
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x VPort 464 Series video encoder
Installation Kit	2 x terminal block, 5-pin 1 x terminal block, 8-pin 1 x terminal block, 5-pin
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Video Interface	Audio Interface	Local Storage	Power Input	Operating Temp.	Mounting
VPort 464	4-channel analog video input	1 x line-in, 1 x line-out	microSD slot, SDXC interface	Redundant power inputs with 2 x 12/24 VDC, 24 VAC power supplies	-25 to 60°C	DIN-rail mount or Panel mount (with optional kit)
VPort 464-T	4-channel analog video input	1 x line-in, 1 x line-out	microSD slot, SDXC interface	Redundant power inputs with 2 x 12/24 VDC, 24 VAC power supplies	-40 to 75°C	DIN-rail mount or Panel mount (with optional kit)

Accessories (sold separately)

Power Supplies

HDR-60-24	60 W/2.5 A DIN-rail 24 VDC power supply, universal 85 to 264 VAC or 120 to 370 VDC input voltage, -30 to 70°C operating temperature
MDR-40-24	DIN-rail 24 VDC power supply with 40W/1.7A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
MDR-60-24	DIN-rail 24 VDC power supply with 60W/2.5A, 85 to 264 VAC, or 120 to 370 VDC input, -20 to 70°C operating temperature
NDR-120-24	120 W/5.0 A DIN-rail 24 VDC power supply, universal 90 to 264 VAC or 127 to 370 VDC input voltage, -20 to 70°C operating temperature

Wall-Mounting Kits

WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws
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Rack-Mounting Kits

RK-4U	19-inch rack-mounting kit
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