## 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<sup>™</sup> 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
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)



#### **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

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

## 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 connect	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 of	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	CBR Pro™ for o Adjustable imag Timestamp and OSD (On Screen Maximum of 10	support for changin good image quality ge size and quality text overlay n Display) position a simultaneous unica ontrol: brightness, c	in limited bandwid adjustable ast connections, 5	th transmissions  0 multicast clients	
Audio Interface					
Audio Inputs	1 Line-in or MIC	-in with 3.5 mm ph	one jack		
Audio Outputs	1 Line-out, with	3.5 mm phone jack	<		
Audio Format	Mono, PCM (G.	711)			
Camera Software Development					
	ONVIF Profile S				
Video Standards					
Video Standards  Camera PAN/TILT/ZOOM					
	Via PTZ port or	COM port			
Camera PAN/TILT/ZOOM		COM port focus, move speed	l, preset position (r	nax. 128 positions	)
Camera PAN/TILT/ZOOM PTZ Camera Control		focus, move speed	, preset position (r	nax. 128 positions	)

## 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				
ЕМІ	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			

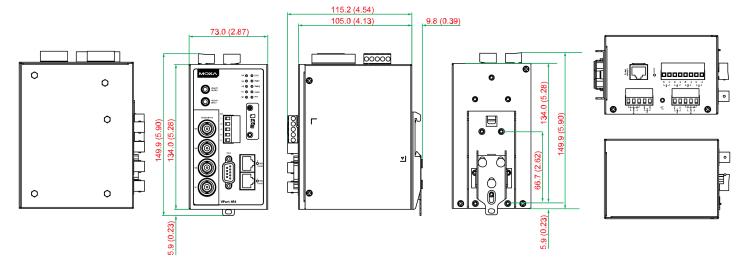


#### **Package Contents**

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**

DR-120-24	120W/2.5A DIN-rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, or 248 to 370 VDC input, -10 to 60°C operating temperature
DR-4524	$45 \text{W}/2 \text{A}$ DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to $50^\circ$ C operating temperature
DR-75-24	$75\text{W}/3.2\text{A}$ DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to $60^{\circ}\text{C}$ 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

#### **Wall-Mounting Kits**

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



#### **Rack-Mounting Kits**

RK-4U 19-inch rack-mounting kit

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