VPort 461A 系列

卓越視訊效能，單頻道 H.264/MJPEG 工業級視訊編碼器

特色與優點

- 同時支援高達 4 組 H.264 和 MJPEG 影像串流
- 高達完整 D1 解析度 (720 x 480) @ 90 fps，適用於 3 組影像串流，搭配傳統類比視訊影像
- 影像延遲小於 200 毫秒
- 2 組乙太網路連接埠，提供串聯或乙太網路連接埠備援
- DynaStream™ 可優化網路效能
- 符合 ONVIF 中標準化和互操作性
- SD 卡插槽可供本機儲存能力
- 工業設計，-40 至 75°C 操作溫度範圍

認證

簡介

VPort 461A 是一台單路工業級影像編碼器，具備 H.264 影像壓縮技術，是目前市場上所見能提供最佳影像品質，卻只需要較小頻寬的一種壓縮標準。此外，為了滿足不同的影像串流需求，VPort 461A 可同時提供 3 組 H.264 和 MJPEG 壓縮格式的影像串流。使用者可將這些影像串流做不同的利用，像是監看、錄製或分析。當然，它也具備工業級的設計，包括 -40 至 75°C 寬溫作業能力、IP30 等級的防護和工業級認證，這些強化的特性使 VPort 461A 更加適用於嚴苛的應用環境。

VPort 461A 也具備 Moxa 革新性的 DynaStream™ 技術，在網路過載時自動降低影像幀速率，以減少影像傳輸的頻寬耗損。DynaStream™ 亦可於緊急事件發生時自動增加影像幀速率，讓網路管理者全面掌控頻寬耗用。CBR Pro™ 功能有助於在有限頻寬傳輸下保證最低的封包遺失，確保影像不會出現馬賽克。

規格

Memory

SD Slot	SDXC

Input/Output Interface

Digital Input Channels	2
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

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

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

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	0.64 A @ 12 VDC, 0.18 A @ 32 VDC 0.59 A @ 18 VAC 0.35 A @ 30 VAC
Power Connector	2-pin terminal block

Video Interface

Video Compression	H.264 (ISO/IEC 14496-10) or MJPEG
Video Input	1, BNC connector (1.0 Vpp, 75 ohm)

Video Output	via Ethernet
Video Streams	4 independent H.264 or MJPEG video streams
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
CIF	352 x 240	30	352 x 288	25
VGA	640 x 480	30	640 x 480	25
4CIF	704 x 480	30	704 x 576	25
Full D1	720 x 480	30	720 x 576	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 Image tuning: control brightness, contrast, saturation Maximum of 10 simultaneous unicast connections, 50 multicast clients

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	46 x 134 x 105 mm (1.81 x 5.31 x 4.13 in)
Weight	710 g (1.57 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	862,568 hrs
Standards	Telcordia SR332

Warranty

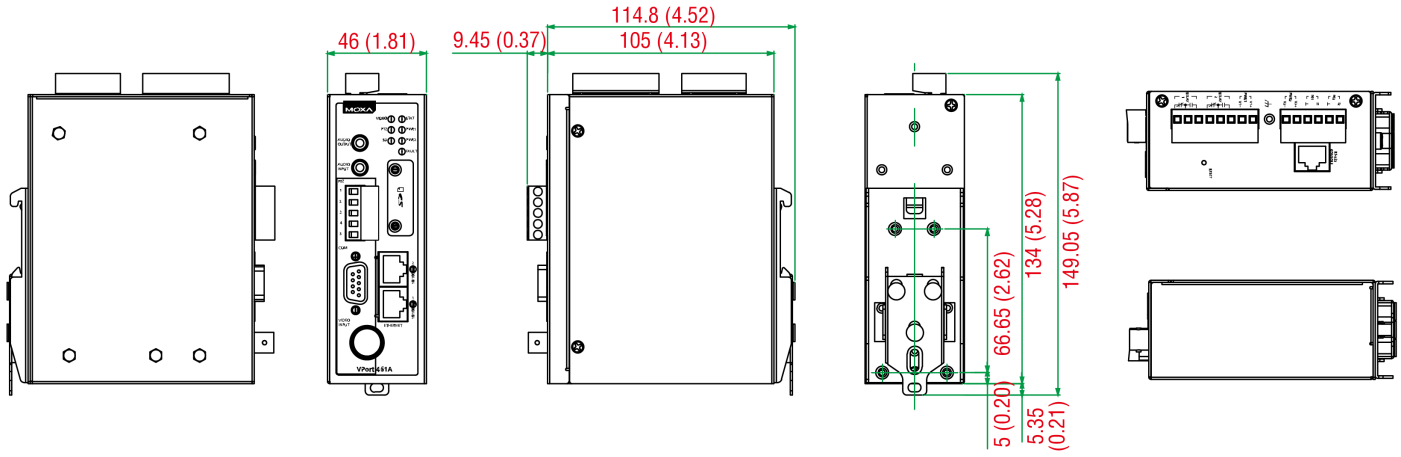
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x VPort 461A Series video encoder
Installation Kit	1 x terminal block, 6-pin 1 x terminal block, 8-pin 1 x terminal block, 5-pin
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



Side View　Front View　Rear View　Top and Bottom Views

訂購資訊

Model Name	Video Interface	Audio Interface	Local Storage	Power Input	Operating Temp.	Mounting
VPort 461A	1-channel analog video input	1 x line-in, 1 x line-out	SD 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 461A-T	1-channel analog video input	1 x line-in, 1 x line-out	SD 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)

配件（選購）

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	45W/2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 50°C operating temperature
DR-75-24	75W/3.2A DIN-rail 24 VDC power supply with universal 85 to 264 VAC or 120 to 370 VDC input, -10 to 60°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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