

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™ 技術優化網路效能
- 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, SMTP, NTP Client, DNS, DDNS, 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 |

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 | 0.85 A @ 12 VDC, 0.3 A @ 32 VDC 0.56/0.85 A @ 30/18 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 manipulation: 180° rotation 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

| | |
|-----------------|--|
| VPort SDK PLUS | Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers |
| 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 |
| Email/FTP Messaging | Automatic transfer of stored images via email or 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 IEC 61000-4-11 DIPs |
| Freefall | IEC 60068-2-31 |
| Safety | UL 60950-1 |
| Shock | IEC 60068-2-27 |
| Traffic Control | NEMA TS2 |
| Vibration | IEC 60068-2-6 |

MTBF

| | |
|-----------|-----------------|
| Time | 647,088 hrs |
| Standards | Telcordia SR332 |

Warranty

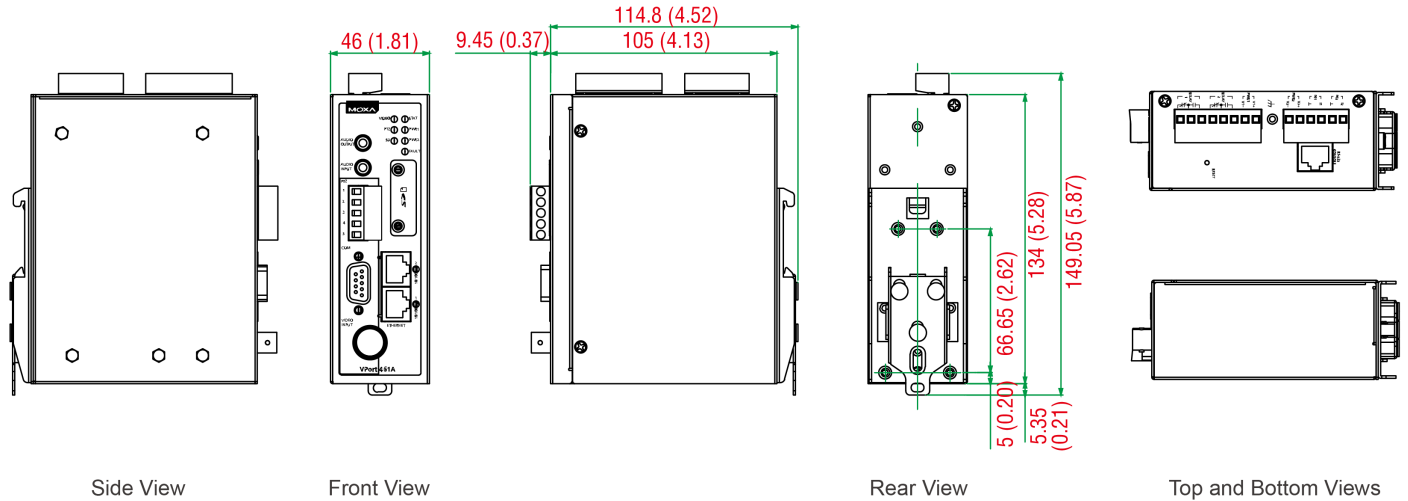
| | |
|-----------------|--|
| Warranty Period | 5 years |
| Details | See www.moxa.com/tw/warranty |

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 document and software CD 1 x quick installation guide 1 x warranty card |

尺寸

單位：公釐（英吋）



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-46 | Wall-mounting kit, 2 plates, 8 screws, 46.5 x 66.8 x 1 mm |
|-------|---|

WK-46-01

Wall-mounting kit, 2 plates, 8 screws, 46 x 66.8 x 2 mm

Rack-Mounting Kits

RK-4U

19-inch rack-mounting kit

© Moxa Inc. 版權所有. 2020 年 8 月 4 日更新。

未經 Moxa Inc. 明確書面許可，不得以任何方式複製或使用本文件及其任何部分。產品規格如有變更，恕不另行通知。請至本公司官網了解最新的產品資訊。