

# VPort 364A Series

**Superior video performance, 4-channel H.264/MJPEG industrial video encoders**



- > Dual simultaneous H.264 and MJPEG video streams
- > Video latency under 200 ms
- > Moxa DynaStream™ function support for network efficiency
- > ONVIF support for standardization and interoperability
- > 802.1X and SSL/SSH for advanced network security
- > Industrial design with -40 to 75°C operating temperature
- > VPort SDK PLUS provided free



## Introduction

The VPort 364A 4-channel industrial video encoder with H.264 video compression algorithm provides the best video quality on the market, but with a smaller bandwidth requirement than other video compression standards. In addition, to meet various video stream requirements, the VPort 364A supports dual video streams using

H.264 and MJPEG compression formats. The two video streams can be used for different purposes, such as viewing, recording, and analysis. In addition, the rugged industrial design, which includes a -40 to 75°C operating temperature range, IP30 form factor protection, and industrial certifications, make the VPort 364A highly suitable for use in harsh environments.

## Specifications

### Video

- Video Compression:** H.264 (MPEG4 part 10, AVC) or MJPEG
- Video Inputs:** 4, BNC connector (1.0 Vpp, 75 ohm)
- Video Streams:** Dual streams (one for H.264, the other for MJPEG)
- NTSC/PAL:** Manual
- Video Viewing:**
  - DynaStream™ support for changing the video frame rate automatically
  - Adjustable image size and quality
  - Timestamp and text overlay

**Video Resolution and FPS (frames per second) in single video stream:**

	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

### Audio

- Audio Inputs:** 1, Line-in or mic-in with RCA connector
- Audio Outputs:** 1, Line-out with RCA connector

**Audio Format:** Mono, PCM

### Network

**Protocols:** TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, IGMPv3, QoS, SNMPv1/v2c/v3, DDNS, Modbus/TCP

**Ethernet:** 1 10/100BaseT(X) auto negotiating RJ45 port, or 1 100BaseFX fiber port (single/multi-mode, SC connector)

### Serial Port

**PTZ Ports:** 1, RS-232/422/485 port (5-pin terminal block connector), max. speed of 115.2 Kbps

**Console Port:** 1, RS-232 RJ45 port

### GPIO

- Digital Inputs:** 4, max. 8 mA
- High: +13 V to +30 V; Low: -30 V to +3 V
- Relay Outputs:** 2, max. 24 VDC @ 1 A

### LED Indicators

- STAT:** System status
- PWR1:** Power 1
- PWR2:** Power 2
- FAULT:** Can be configured to correspond to system alarm, power failure, or disconnected network
- V1, V2, V3, V4:** Video input signal activity for channels 1 to 4

### Power Requirements

- Input Voltage:** 2 redundant power inputs, 12 to 32 VDC or 18 to 30 VAC, terminal block connector
- Input Current:** 12 to 32 VDC, 0.7 A (max.) or 18 to 30 VAC, 0.68 A (max.)

**Power Consumption:** 7.5 W (max.)

### Physical Characteristics

- Housing:** Metal, IP30 protection
- Dimensions:** 80.2 x 135 x 105 mm (3.16 x 5.31 x 4.13 in)
- Weight:** 1.13 kg (2.49 lb)
- Installation:** DIN-rail mounting (standard), wall mounting (optional)

### Alarms

- Video Motion Detection:** Includes sensitivity tuning
- Video Loss:** Video loss alarm
- Scheduling:** Daily repeat timing schedule
- Imaging:** JPEG snapshots for pre/trigger/post alarm images
- Custom Alarms:** HTTP event servers and CGI events for setting customized alarm actions
- Email/FTP Messaging:** Automatic transfer of stored images via email or FTP with event-triggered actions
- Pre-alarm Buffer:** 24 MB per channel for JPEG snapshot images

### PAN/TILT/ZOOM

**PTZ Camera Control:** Via RS-232/422/485 PTZ port  
**PTZ Control Functions:** PAN, TILT, ZOOM, FOCUS, moving speed, preset position (max. 25 positions), and 24 custom commands  
**PTZ Function Updates:** Driver upload supported  
**Supported Device Protocols:** Pelco D, Pelco P, Dynacolor DynaDome, Cohu, Custom Camera

**Transparent PTZ Control:** Control PTZ cameras with legacy PTZ control panel or keyboard connected to a PC or VPort decoder

### Security

**Password:** User level password protection

**Filtering:** By IP address

### Environmental Limits

#### Operating Temperature:

Standard Models: 0 to 60°C (32 to 140°F)

Wide Temp. Models: -40 to 75°C (-40 to 167°F)

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Vibration:

IEC 60068-2-6, 2 to 13.2 Hz: 2 mm (peak-peak); 13.2 to 100 Hz: 0.7g; 1.50 hrs/axis

IEC 60068-2-6, 3 to 9 Hz: 7 mm (peak-peak); 9 to 150 Hz: 1.0g; 1.86 hrs/axis

**Shock:** IEC 60068-2-27, 20g/11ms

**Altitude:** 2000 m

**Ingress Protection:** IEC 60529, IP30

### Standards and Certifications

**Safety:** UL 60950-1

**EMI:** CISPR 22, 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: 10 V/m

IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV

IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV

IEC 61000-4-6 CS: 10 V

IEC 61000-4-8

**MTBF** (mean time between failures)

**Time:** 465,000 hrs

**Standard:** Telcordia SR332

### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Minimum Viewing System Requirements

**CPU:** Pentium 4, 2.4 GHz or above

**Memory:** 512 MB memory or above

**OS:** Windows XP/2000 with SP4 or above, Windows Vista, Windows 7

**Browser:** Internet Explorer 9.x or above

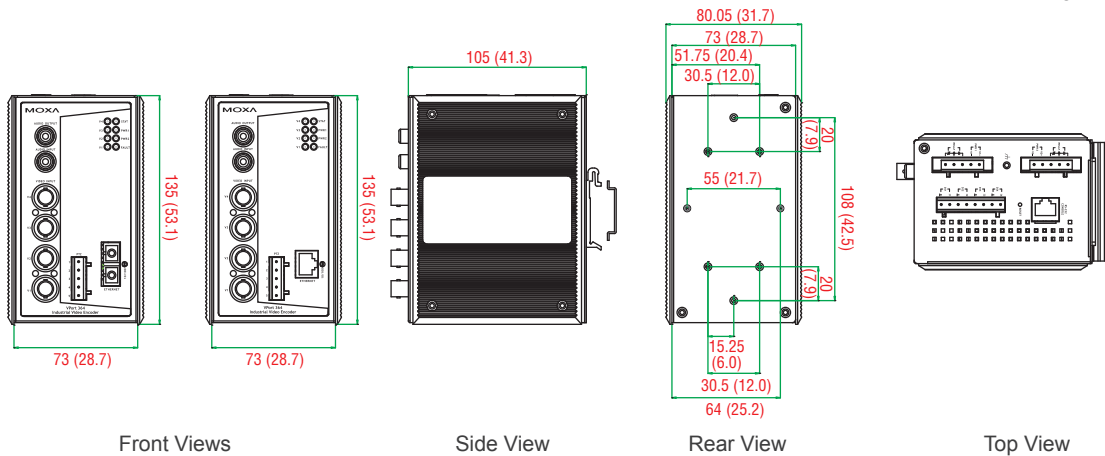
**Multimedia:** DirectX 9.0c or above

### Software Development

**VPort SDK PLUS:** Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers (the latest version of SDK is available for download from Moxa's website).

**Standard:** ONVIF

### Dimensions



Unit: mm (inch)

### Ordering Information

Available Models		Port Interface		
Standard Temp. Range (0 to 60°C)	Wide Temp. Range (-40 to 75°C)	10/100/1000 BaseT(X)	Multi-mode, SC Connector	Single-mode, SC Connector
VPort 364A	VPort 364A-T	1	-	-
VPort 364A-M-SC	VPort 364A-M-SC-T	-	1	-
VPort 364A-S-SC	VPort 364A-S-SC-T	-	-	1

### Optional Accessories (can be purchased separately)

**SoftNVR-IA:** 64-channel IP surveillance software for industrial automation applications

**DR-4524:** 45W/2A, 24 VDC power supply, with universal 85 to 264 VAC input

**DR-75-24:** 75W/3.2A, 24 VDC power supply, with universal 85 to 264 VAC input

**DR-120-24:** 120W/5A, 24 VDC power supply, with 88 to 132 VAC/176 to 264 VAC input by switch

**MDR-40-24:** 40W/1.7A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input, -20 to 70°C operating temperature

**MDR-60-24:** 60W/2.5A DIN-rail 24 VDC power supply with universal 85 to 264 VAC input, -20 to 70°C operating temperature

**WK-46:** Wall-mounting kit

**RK-4U:** 19-inch rackmount set

### Package Checklist

- VPort 364A video encoder
- 2 5-pin terminal blocks for 2 power inputs and 2 relay outputs
- 1 8-pin terminal block for 4 DIs
- 1 5-pin terminal block for the RS-232/422/485 PTZ control port
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card