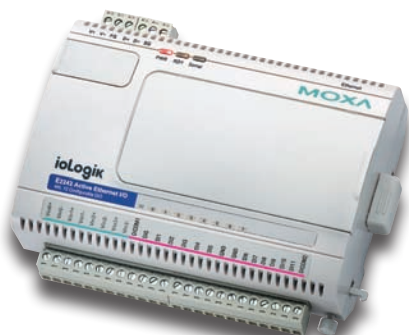


ioLogik E2242

Active Ethernet I/O with 4 analog inputs and 12 configurable DIOs



- > 4 fixed differential analog input channels
- > 12 configurable digital input/output channels
- > DI counter saved automatically when power shuts off
- > Instant event messaging by TCP/UDP/email/SNMP-Trap
- > PC-based configuration utility and web console
- > Easy-to-use Click&Go™ Logic for local output control
- > Windows/WinCE VB/VC.NET and Linux C APIs
- > I/O control over Modbus/TCP and SNMP protocol
- > NIST traceable calibration



: Introduction

Better I/O Matrix for Monitoring—Moxa's ioLogik E2242 is tailor-made for use with remote monitoring and alarm systems. This Active Ethernet I/O product provides 4 analog inputs and 12 configurable DIOs for a 1:3 ratio of analog IOs to digital IOs perfectly adapted

to water tank monitoring and environmental monitoring applications, in which 1 analog input is used to trigger 3 digital outputs as High-High, High, and Low alarms. Moxa's ioLogik E2242 lets you set up your monitoring system without the need for a local PC or RTU.

: Specifications

LAN

Ethernet: 1 x 10/100 Mbps, RJ45

Protection: 1.5 KV magnetic isolation

Protocols: Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, SNMP (MIB for I/O and Network), HTTP, CGI, SNTP

Serial Communication

Interface: RS-485-2w: Data+, Data-, GND

Serial Line Protection: 15 KV ESD for all signals

Serial Communication Parameters

Parity: None

Data Bits: 8

Stop Bits: 1

Flow Control: None

Baudrate: 1200 to 115200 bps

Protocol: Modbus/RTU

Analog Input

Channels: 4 analog inputs with differential input

Resolution: 16 bits

I/O Mode: Voltage / Current

Input Range: ± 150 mV, 0 to 150 mV, ± 500 V, 0 to 500 mV, ± 5 V, 0 to 5 V, ± 10 V, 0 to 10 V, 0 to 20 mA, 4 to 20 mA

Accuracy:

$\pm 0.1\%$ FSR @ 25°C

$\pm 0.3\%$ FSR @ -10 and 60°C

Sampling Rate (all channels): 100 samples/sec

Input Impedance: 200K ohms (min.)

Built-in Resistor for Current Input: 102 ohms

DI/DO Configurable Channels

Channels: 12

I/O Mode:

- DI or Event Counter (up to 900 Hz)
- DO or Pulse Output (up to 100 Hz)

Digital Input

Channels: Up to 12, source/sink selectable

Sensor Type: NPN, PNP, and Dry contact

I/O Mode: DI or event counter (up to 900 Hz)

Dry Contact:

- Logic 0: short to GND; • Logic 1: Open

Wet Contact: (For Source Type)

- Logic 0: 0 to 3 VDC; • Logic 1: 10 to 30 VDC

Common Type: 6 points per COM

Isolation: 3K VDC or 2K Vrms

Counter/Frequency: 900 Hz, power off storage

Digital Filtering Time Interval: Software selectable

Over-voltage Protection: 36 VDC

Poweroff Counter Memory: 48 bytes

Digital Output

Channels: Up to 12, sink type, 36 VDC, 200 mA

I/O Mode: DO or Pulse Output (up to 100 Hz)

Pulse Wave Width/Frequency: 10 ms/100 Hz

Over-voltage Protection: 45 VDC

Over-current Limit: 400 mA (typical)

Over-temperature Shutdown: 175°C (min.)

Output Current Rating: Max. 200 mA per channel

Isolation: 2K Vrms or 3K VDC (Magnetic)

Power Requirements

Power Input: 24 VDC nominal, 12 to 48 VDC

Power Consumption: 282 mA typical @ 24 VDC

Physical Characteristics

Wiring: I/O cable max. 14AWG

Dimensions: 115 x 79 x 45.63 mm (4.53 x 3.11 x 1.8 in)

Weight: 215 g

Environmental Limits

Operating Temperature: -10 to 60°C (14 to 140°F)

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

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

Regulatory Approvals

EMI: FCC Part 15, CISPR (EN55022) class A

EMS: IEC 61000-4, IEC 61000-6

Shock: IEC 60068-2-27

Freefall: IEC 60068-2-32

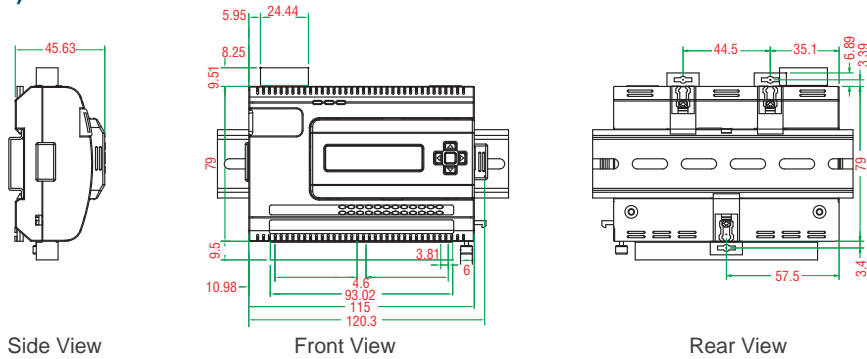
Vibration: IEC 60068-2-6

Warranty

Warranty Period: 2 years

Details: See www.moxa.com/warranty

Dimensions (unit = mm)



Pin Assignment

I/O (left to right)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Ain0+	Ain0-	Ain1+	Ain1-	Ain2+	Ain2-	Ain3+	Ain3-	DI.COM1	DI00	DI01	DI02	DI03	DI04	DI05	GND	GND	DI06	DI07	DI08	DI09	DI010	DI011	DI.COM2

Ordering Information

ioLogik E2242: Active Ethernet I/O with 4 analog inputs and 12 configurable DIOs

LDP1602: LCD module with 16 x 2 text display and 5 buttons