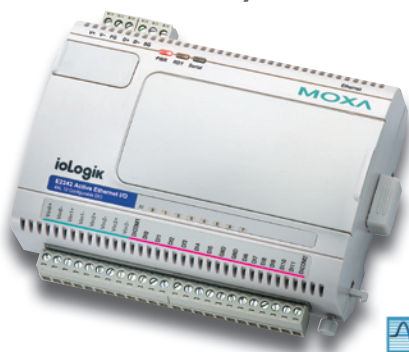


# ioLogik E2242

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



The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.

- > 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



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Industrial I/O > ioLogik E2242

## 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 configu-

rable 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

### 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:**  
 ±0.1% FSR @ 25°C  
 ±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)

## 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