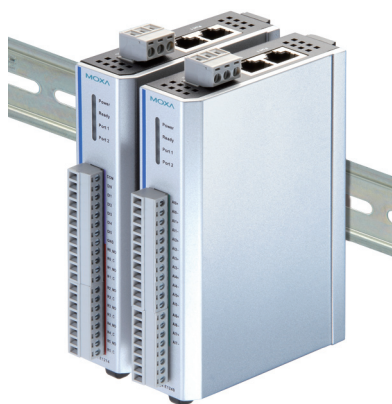


# ioLogik E1242

**Remote Ethernet I/O with 2-port Ethernet switch, 4 AIs, 4 DIs, and 4 DI0s**



- > Built-in 2-port Ethernet switch for daisy-chain topologies
- > Free support of Moxa's push-based Active OPC Server Lite
  - Seamlessly connect to any SCADA system
  - Save 80% on network bandwidth
  - I/O response that's seven times faster
- > User-defined Modbus/TCP addressing
- > MXIO programming library for Windows and WinCE VB/VC.NET and Linux C APIs
- > Web configuration with Import/Export function

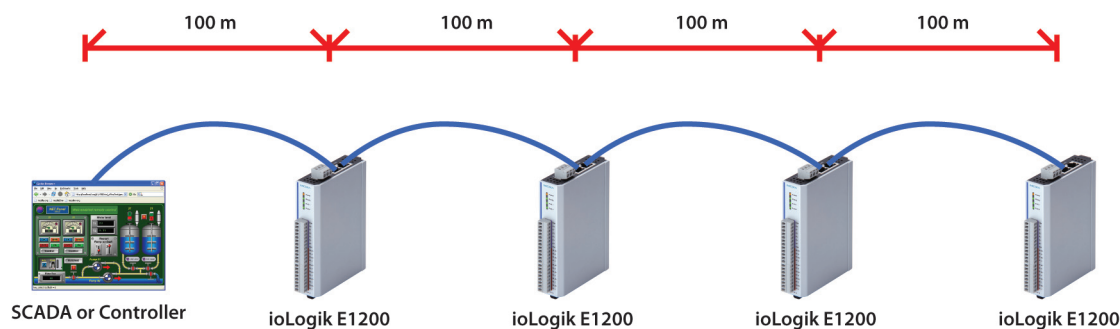


## Introduction

### Daisy-chained Ethernet I/O Connection

A new daisy-chained Ethernet I/O concept is now available. The ioLogik E1242 industrial remote Ethernet I/O has two embedded Ethernet switch ports that allow information to flow to another local Ethernet device or connect to the next ioLogik in the daisy-chain. Applications such as factory automation, security and surveillance systems, and tunnel monitoring, can make use of daisy-chained Ethernet for building multi-drop I/O networks over standard Ethernet cables. Many industrial automation users are familiar with the multi-drop configuration

typically used in fieldbus applications. The daisy-chain function on the remote Ethernet I/O ioLogik E1242 not only increases the connection between machines and panels, but also lowers the cost of buying separate Ethernet switches, and at the same time reduces labor fees and cabling by a large percentage. For example, if a production facility contains 700 stations (20 points per station), the wiring cost reduction can reach 15% of the total implementation cost.



## : Specifications

### LAN

**Ethernet:** 2 x 10/100 Mbps switch ports, RJ45

**Protection:** 1.5 KV magnetic isolation

**Protocols:** Modbus/TCP, TCP/IP, UDP, DHCP, Bootp, HTTP

### Analog Input

**Type:** Differential input

**Resolution:** 16 bits

**I/O Mode:** Voltage / Current

**Input Range:** 0 to 10 VDC, 4 to 20 mA

**Accuracy:**

±0.1% FSR @ 25°C

±0.3% FSR @ -10 and 60°C

**Sampling Rate (all channels):** 12 samples/sec

**Input Impedance:** 10M ohms (minimum)

**Built-in Resistor for Current Input:** 120 ohms

### Digital Input

**Sensor Type:** NPN, PNP, and Dry contact

**I/O Mode:** DI or Event Counter

**Dry Contact:**

- Logic 0: short to GND

- Logic 1: open

**Wet Contact:**

- Logic 0: 0 to 3 VDC

- Logic 1: 10 to 30 VDC (DI COM to DI)

**Isolation:** 3K VDC or 2K Vrms

**Counter/Frequency:** 250 Hz, power off storage

### Digital Output

**I/O Mode:** DO or Pulse Output

**Pulse Wave Width/Frequency:** 1 ms/500 Hz

**Over-voltage Protection:** 45 VDC

**Over-current Limit:** 600 mA per channel

**Over-temperature Shutdown:** 175°C (typical), 150°C (min.)

**Output Current Rating:** Max. 200 mA per channel

**Isolation:** 3K VDC or 2K Vrms

### Power Requirements

**Power Input:** 24 VDC nominal, 12 to 36 VDC

**Power Consumption:** 130 mA typical @ 24 VDC

### Physical Characteristics

**Wiring:** I/O cable max. 14 AWG

**Dimensions:** 27.8 x 124 x 84 mm (1.09 x 4.88 x 3.31 in)

**Weight:** under 200 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

**Safety:** UL508

**Shock:** IEC 60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

*Note: Please check Moxa's website for the most up-to-date certification status.*

### Warranty

**Warranty Period:** 2 years

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

## Dimensions

