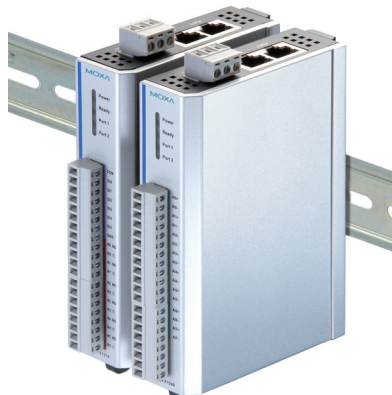# ioLogik E1241

Remote Ethernet I/O with 2-port Ethernet switch and 4 AOs

> 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
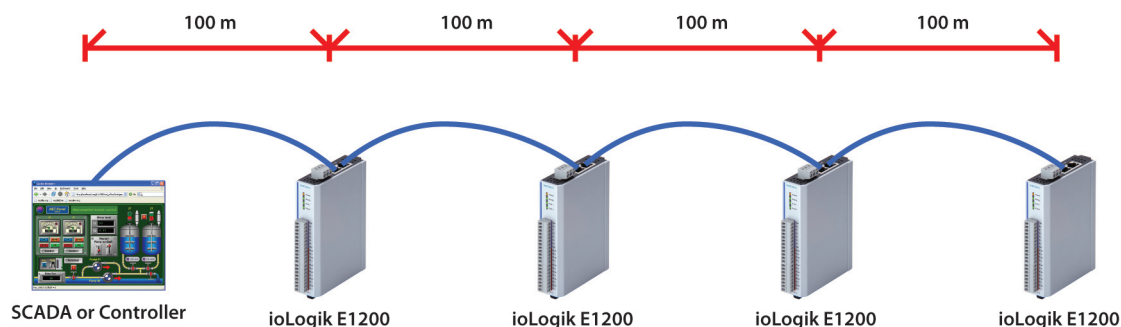> Web configuration with Import/Export function

: Introduction

Daisy-chained Ethernet I/O Connection

A new daisy-chained Ethernet I/O concept is now available. The ioLogik E1241 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 E1241 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 Output

Resolution: 12 bits

Output Range: 0 to 10 VDC, 4 to 20 mA

Voltage Output: 10 mA (Max.)

Accuracy:
±0.1% FSR @ 25°C
±0.3% FSR @ -10 and 60°C

Load Resistor:
• Internal power: 400 ohms
• External 24V power: 1000 ohms

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
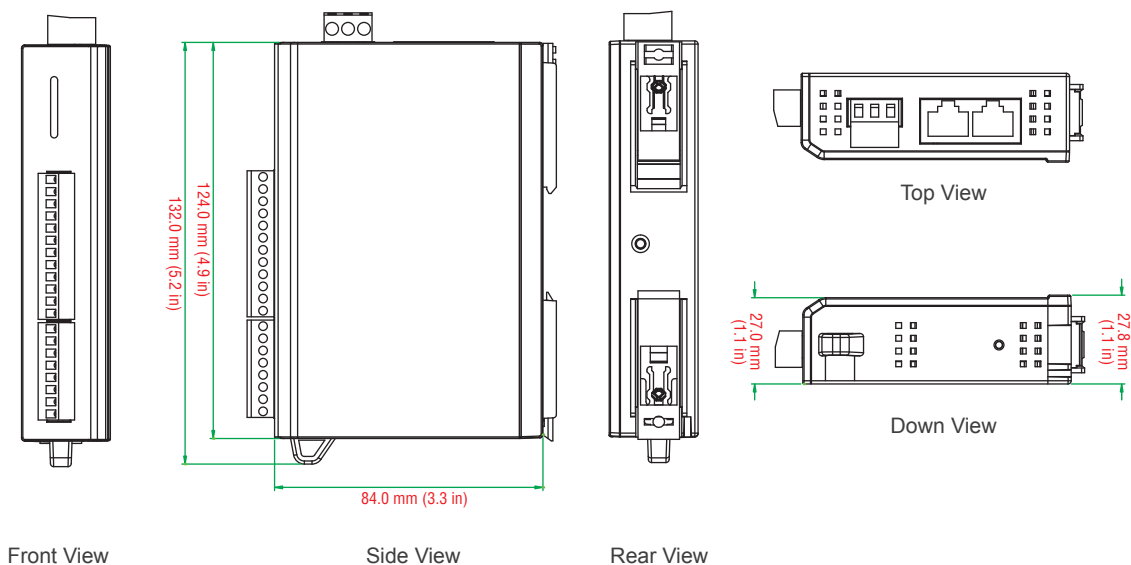
Vibration: IEC 60068-2-6

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

Dimensions

Front View · Side View · Rear View · Top View · Down View

: Ordering Information

Available Models

ioLogik E1241: Remote Ethernet I/O with 2-port Ethernet switch and 4 AOs