

# ioLogik E1261W-T

## Remote I/O for wind power applications



- > 3 resistance thermometer detector (RTD) channels
- > 5 analog input channels
- > 12 DI/O channels, each configurable for either input or output
- > Wide operating temperature: -40 to 75°C (-40 to 167°F)
- > Active communication with patented MX-AOPC UA Server and Active OPC Server
- > MXIO library for simplified I/O management on either Windows or Linux platforms
- > User-friendly configuration via web browser

### Introduction

Moxa's ioLogik E1261W-T is designed for Ethernet-based remote condition monitoring systems. With 3 RTD, 5 AI, and 12 DI/O channels, the ioLogik E1261W-T's I/O combination is ideal for monitoring wind turbines and environmental conditions. Unlike

other remote I/O products, which are passive and must poll for data, the ioLogik E1261W-T supports active communication with Moxa's patented Active OPC Server to enable real time communications capabilities with remote monitoring and control systems.

### Specifications

#### Inputs and Outputs

**Digital Inputs:** 3 channels

**Analog Inputs:** 5 channels

**Configurable DI/Os:** 12 channels

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

#### RTD Input

**Resolution:** 16 bits

**Input Type:** PT100 (-200 to 850°C)

**Input connection:** 2 or 3 wire

#### Accuracy:

- ±0.1% FSR @ 25°C

- ±1% FSR @ -40 and 75°C

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

**Input Impedance:** 625k ohms (min.)

#### Analog Input

**Type:** Differential input

**Resolution:** 16 bits

**I/O Mode:** Current

**Input Range:** 4 to 20 mA

#### Accuracy:

- ±0.1% FSR @ 25°C

- ±1% FSR @ -40 and 75°C

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

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

#### Digital Input

**Sensor Type:** Wet Contact (NPN or PNP), Dry Contact

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

#### Dry Contact:

- On: short to GND

- Off: open

#### Wet Contact (DI to GND):

- On: 0 to 3 VDC

- Off: 10 to 30 VDC

**Common Type:** 12 points per COM (Configurable DI/Os)

**Counter Frequency:** 250 Hz

**Digital Filtering Time Interval:** Software Configurable

**Over-Voltage Protection:** 36 VDC

#### Digital Output

**Type:** Sink

**I/O Mode:** DO or pulse output

**Pulse Output Frequency:** 500 Hz

**Over-Voltage Protection:** 45 VDC

**Over-Current Protection:** 2.6 A (4 channels @ 650 mA)

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

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

#### LAN

**Ethernet:** 1 10/100 Mbps RJ45 port

**Protection:** 1.5 kV magnetic isolation

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

#### Power Requirements

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

#### Physical Characteristics

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

#### Environmental Limits

**Operating Temperature:** -40 to 75°C (-40 to 140°F)

**Storage Temperature:** -40 to 85°C (-40 to 167°F)

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

### Serial Communication

**Interface:** Data+, Data-, GND (3-contact terminal block)

**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 bps to 115,200 bps

**Protocols:** Modbus RTU

### Standards and Certifications

**Safety:** UL 508

**EMI:** EN 55022; EN 61000-3-2; EN 61000-3-3; FCC Part 15, Subpart B, Class A

**EMS:** EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

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

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

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

**Green Product:** RoHS, CRoHS, WEEE

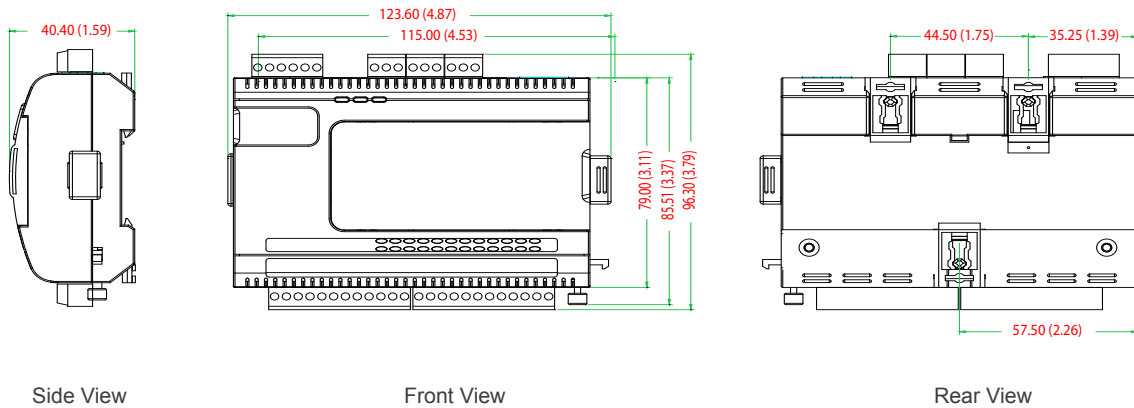
### Warranty

**Warranty Period:** 5 years

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

### Dimensions

Unit: mm (inch)



### Ordering Information

#### Available Models

**ioLogik E1261W-T:** Ethernet remote I/O with 12 DI/Os, 5 AIs, 3 RTDs, -40 to 75°C operating temperature

#### Package Checklist

- ioLogik E1261W-T remote I/O product
- Documentation and software CD
- Quick installation guide (printed)