ioLogik E2212

Active Ethernet I/O with 8 digital inputs, 8 digital outputs, and 4 configurable DIO

> Selectable digital I/O combination (by software)
> Accepts PNP or NPN sensors
> DI counter saved automatically when power shuts off
> Instant event messaging by TCP/UDP/email/SNMP trap
> Easy-to-use Click&Go™ Logic for local output control
> PC-based configuration utility and web console
> I/O control over Modbus/TCP and SNMP protocol
> Windows/WinCE VB/VC.NET and Linux C APIs
> Peer-to-Peer I/O without controller

: Introduction

Flexible Digital Input/Output Configuration

The ioLogik E2212 provides system integrators with the flexibility to handle various field demands with channels that can be configured by software for input or output operation. You can configure the I/O channels to suit your needs, for combinations such as 12-inputs/8-outputs, 8-inputs/12-outputs, or 10-inputs/10-outputs.

Single Ethernet DIO that Accepts 3 Sensor Types

Unlike traditional Ethernet I/O products, the ioLogik E2212 can connect to dry contact, PNP, and NPN sensors at the same time. You can choose the sensor type based on your wiring approach.

: 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

Digital Input

Channels: 8, source/sink selectable
Sensor Type: 2 6-point groups for NPN/PNP type
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 (DI COM to DI)

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: 8, 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)

DI/DO Configurable Channels

Channels: 4
I/O Mode:
• DI or Event Counter (up to 900 Hz)
• DO or Pulse Output (up to 100 Hz)

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: 210 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

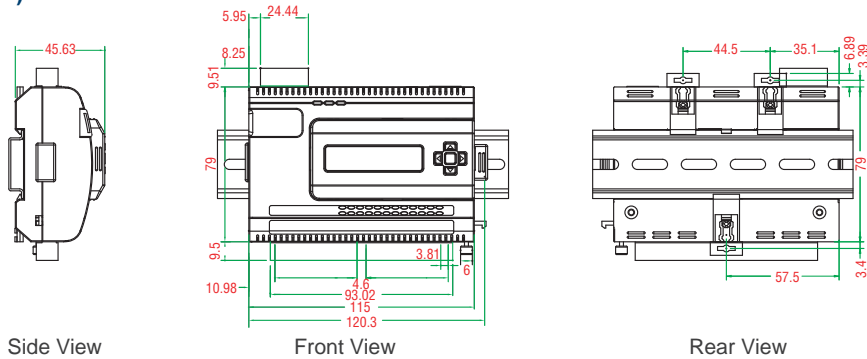**Shock:** IEC 60068-2-27

Freefall: IEC 60068-2-32

Vibration: IEC 60068-2-6

Warranty

Warranty Period: 2 years

Details: See www.moxa.com/warranty

Dimensions (unit = mm)

Side View   Front View   Rear View

: 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
DI.COM1	DI0	DI1	DI2	DI3	DI4	DI5	DI.COM2	DI6	DI7	DIO8	DIO9	DIO10	DIO11	GND	DO0	DO1	DO2	DO3	DO4	DO5	DO6	DO7	DO.PWR

: Ordering Information

ioLogik E2212: Active Ethernet I/O, with 8 digital inputs, 8 digital outputs, and 4 DIOs

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