# ioMirror E3200 Series

## Ethernet peer-to-peer I/O with 8 digital inputs and 8 digital outputs



#### **Features and Benefits**

- · Direct input-to-output signal communication over IP
- High-speed peer-to-peer I/O within 20 ms
- · One physical alarm port for connectivity status
- · Utility for quick and easy web-based settings
- · Local alarm channel
- Remote alarm message
- Supports Modbus TCP for remote monitoring
- Optional LCD module for easy configuration

#### Certifications



## Introduction

The ioMirror E3200 Series, which is designed as a cable-replacement solution to connect remote digital input signals to output signals over an IP network, provides 8 digital input channels, 8 digital output channels, and a 10/100M Ethernet interface. Up to 8 pairs of digital input and output signals can be exchanged over Ethernet with another ioMirror E3200 Series device, or can be sent to a local PLC or DCS controller. Over a local area network, the ioMirror can achieve a low signal latency (typically less than 20 ms). With the ioMirror, remote sensors can be connected to local controllers or display panels over copper, fiber, or wireless Ethernet infrastructures, and signals can be transmitted over virtually unlimited distances, without noise problems.

#### **Split Sensor Signals to 16 Different Locations**

The ioMirror E3200 Series can split one input signal to two digital output channels at two different IP addresses. Eight tank level signals can be monitored at 16 different display panels, all at the same time.

#### Local Alarm and Remote Alarm Messages for Monitoring Connectivity

The ioMirror E3200 Series has a 24 VDC alarm output channel that can activate an attached buzzer or LED display when the connection fails. In addition, both ioMirror modules can send messages to the ioEventLog software, ensuring that at least one of the warning messages will reach the ioEventLog software.

## **Specifications**

Input/Output Interface	
Digital Input Channels	8
Digital Output Channels	8
Alarm Contact Channels	1
Isolation	3k VDC or 2k Vrms
Buttons	Reset button
Digital Inputs	
Connector	Screw-fastened Euroblock terminal
Digital Filtering Time Interval	Software configurable
Dry Contact	On: short to GND Off: open



I/O Mode	DI
Over-Voltage Protection	36 VDC
Points per COM	8 channels
Sensor Type	Dry contact Wet Contact (NPN)
Wet Contact (DI to GND)	On: 10 to 30 VDC Off: 0 to 3 VDC
Digital Outputs	
Connector	Screw-fastened Euroblock terminal
Current Rating	200 mA per channel
I/O Mode	DO
I/O Туре	Sink
Over-Current Protection	0.6 A per channel @ 25°C
Over-Temperature Shutdown	160°C (min.)
Over-Voltage Protection	35 VDC
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	1
Magnetic Isolation Protection	1.5 kV (built-in)
Ethernet Software Features	
Configuration Options	Web Console (HTTP) Windows Utility (ioMirrorAdmin)
Industrial Protocols	Modbus TCP Server (Slave)
Management	BOOTP DHCP Client HTTP TCP/IP UDP
Time Management	SNTP
Modbus TCP	
Functions Supported	1, 2, 3, 4, 5, 6, 15, 16
LED Interface	
LED Indicators	PWR, Ready
Power Parameters	
Power Connector	Screw-fastened Euroblock terminal
No. of Power Inputs	1
Input Voltage	12 to 48 VDC
Power Consumption	136 mA @ 24 VDC



Carent Faiting     Max. 200 mA per channel       Connector     Sorew-fastened Euroblock terminal       Physical Characteristics     Plastic       Housing     Plastic       Dimensions     15 x 79 x 45 0 mm (4.53 x 3.11 x 1.80 in)       Weight     205 g (0.48 lb)       Wring     Ob 20 db (15 0 26 AWG power cable, 16 to 26 AWG power cable, 16 to 26 AWG power cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Dower cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Power cable, 16 to 26 AWG       Power cable, 16 to 26 AWG     Power cable, 16 to 26 AWG       Autuad     2000 m     None-condensing)       Autuad     E0 60004-24 ESC Port 15B Class A       Stadards and Cartifications     E0 60004-24 ESC Port 15B Class A	Alarm Contacts		
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Physical Characteristics       Physical Characteristics       Housing     Plastic       Dimensions     115 x 79 x 45.6 mm (4.53 x 3.11 x 1.80 in)       Weight     205 g (0.45 lb)       Wring     205 g (0.45 lb)       Wring     205 g (0.45 lb)       Installation     Wall mounting DIM-rail mounting       Environmental Limits     Vall mounting       Storage Temperature (package included)     40 to 60°C (14 to 140°F)       Ambient Relative Humidity     5 to 95% (non-condensing)       Altitude     2000 m       Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.       Storage Temperature (package)     EC 60068-2.32       EMI     EC 60068-2.32       EMI     EC 60068-2.42       Storage Temperature     IEC 60068-2.42       EMI     EC 60068-2.42       EMI     EC 60068-2.42       Storage Temperature     IEC 60068-2.42       EMI     EC 60068-2.42       Storage Temperature     IEC 60068-2.42       EMI     IEC 60068-2.42       Storage Temperature     IEC 60068-2.42       EMI <td>Current Rating</td> <td colspan="2">Max. 200 mA per channel</td>	Current Rating	Max. 200 mA per channel	
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	Warranty		
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See www.moxa.com/warranty

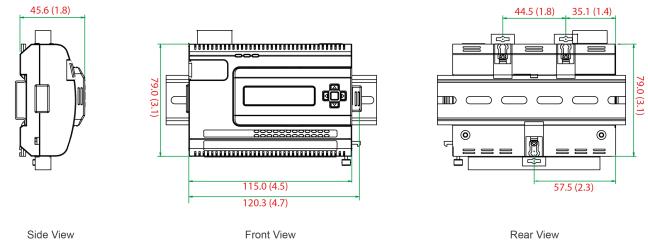


Details

Package Contents	
Device	1 x ioMirror E3200 Series peer-to-peer I/O
Installation Kit	1 x terminal block, 3-pin, 3.81 mm 1 x terminal block, 12-pin, 3.81 mm
Documentation	1 x quick installation guide

## **Dimensions**





# **Ordering Information**

Model Name	Input/Output Interface	Operating Temp.
ioMirror E3210	8 x DI, 8 x DO	-10 to 60°C

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