



# E3 I/O Module with 32 Mixed Inputs/Outputs (12DI 8DO 8AI 4AO)

Item number: E3-MIX20884-1

The E3 I/O module streamlines networks with high-performing and flexible Ethernet connectivity. With 32 mixed inputs and outputs, the module supports any instrumentation need. Fast redundancy, password security, diagnostics and rugged design ensure reliable performance and reduced downtime in remote and extreme settings.



*Powerful networking with reliable remote monitoring and control capabilities*

## Features and benefits

- ✓ **Ethernet connectivity that's reliable, simple and secure**  
A robust and rugged Ethernet solution for collecting and communicating local sensor or field data. Built-in dual 10/100BaseT(X) RJ-45 Ethernet ports for daisy chaining, redundancy or pass-through.
- ✓ **High speed performance of discrete inputs**  
Fast response times of 1 ms, special fast counting rate and pulse options. Robust input resistance and current plus high impedance with overvoltage protection.
- ✓ **Fast and accurate analog input/output channels**  
Full scale accuracy  $\pm 0.02\%$  (at 20°C), fast update time and short circuit protection. Circuit protection fuses on analog inputs are self-resetting.
- ✓ **Engineered to last in industrial settings**  
Hardened metal enclosure is designed to withstand extreme industrial conditions. Snaps into standard DIN-rail and includes panel mount option for easy installation locally and in the field.
- ✓ **Powerful networking capability**  
Modbus protocol support for industrial monitoring and communications. Also supports TCP/IP, ARP, UDP, ICMP, DHCP, HTTP, Sixnet TCP and UDP.
- ✓ **Leading compliance certifications**  
Suitable for hazardous environments with UL Class I, Division 2 listing and CE and CSA certifications. ATEX/IECEx certified.
- ✓ **Mixed inputs and outputs**  
A total of 32 mixed inputs and outputs: 12 discrete digital inputs, 8 discrete digital outputs, 8 analog inputs and 4 analog outputs.
- ✓ **Robust, high-performing discrete output channels**  
High output performance with minimum off-state leakage (under 10 uA). Short circuit protection and self-reset fuse capability. Channel scan rate of 1ms.
- ✓ **Simplicity with built-in Crimson® configuration software**  
Program with drag-and-drop ease and efficiency through a web browser and Crimson's user-friendly graphical user interface.
- ✓ **Real-time Ring option for fast redundancy**  
The Ring option allows the dual Ethernet ports to act as Real-Time Ring switch ports. Real-Time Ring operates at 30 ms + 5ms per hop.
- ✓ **Engineered for harsh environments**  
All-metal housing delivers uncompromising performance in demanding environments. Operating temperature of -40 °C to 75 °C. MTBF >1 million hours.
- ✓ **Redundant power supply**  
Output voltage range 10-30 VDC

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## General

Net Weight (g)	0.01
Packed Width (mm)	215.9
Packed Height (mm)	127
Packed Depth (mm)	215.9
Packed Weight (g)	907.01
Relative Humidity	10% to 95% (Non Condensing)
Power Consumption (W)	0
Input Voltage (V)	10-30 VDC (12-24 Nominal)
Mounting	DIN rail mount (bracket included)
Panel Cut-Out Dimensions	71.4 mm x 53.1 mm
Housing Materials	Metal Housing
Packaging Material	Cardboard
Warranty (years)	2

## Identification and Status

Product ID	E3-MIX20884-1
Country of Origin	United States of America (the)
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

Top Wiring Clearance (mm)	25.4
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Front Wiring Clearance (mm)	50.8
SD Card Slot	No
Flash Drive	No
Contains Battery	No

## Certifications and Standards

RoHS Compliant	No
CE	Yes
FCC	Yes
UKCA	No
UL	Yes
ATEX	Yes
DNV	Yes
KC	No
Mean Time Before Failure (MTBF)	1,332,475 Hours GB @ 40°C
Vibration and Shock	Shock: IEC60068-2-6; Vibration: IEC60068-2-27