

## ReliaIO 10-12

- Industrial Grade
- ReliaGATE Compatible
- 4x Isolated Digital Inputs
- 4x Isolated Digital Outputs
- 4x Protected Analog Inputs
- Open Platform
- Customizable



### FEATURES

**Industrial Grade** - Compact and sturdy, with reliable terminal block interfaces and a wide operating temperature range

**ReliaGATE Compatible** - Designed to be a companion for the ReliaGATE 10-12, expands the gateway capabilities with extra digital and analog ports

**4x Isolated Digital Inputs** - Supporting 0-36V input range and optionally customizable 0/1 level threshold

**4x Isolated Digital Outputs** - Open drain output transistors rated 60V, up to 0.5A output and clear LED status indication

**4x Protected Analog Inputs** - Supporting 0-36V input range and 12bit @1KHz sampling

**Open Platform** - Supported by Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT gateways that accelerates gateway development and enables remote management

**Customizable** - Personalization and full customization options are available, ranging from branding ("skins" and color) to deep HW/SW configurations

ReliaIO 10-12 is a fast and simple way to expand the capabilities of Eurotech IoT Gateways with extra digital and analog ports.

Designed to be fitted to the side of the ReliaGATE 10-12, it is rated for the same level of reliability and operating temperature range.

ReliaIO 10-12 features a high performance 32bit MCU to offload the gateway, delivering highly consistent performance under any load.

The digital section of ReliaIO 10-12 sports 4x isolated digital inputs and 4x isolated digital outputs, while the analog section provides 4x protected analog inputs.

ReliaIO 10-12 is supported by Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform (separately available).

ReliaIO 10-12 can be personalized and customized for additional capabilities through Eurotech Professional Services.

## ReliaIO 10-12

## Specifications

Ordering code: REIO-10-12-XX		
XX		-01
PROCESSOR	MCU	STM 32F072XX - 32 bit ARM Cortex® M0
MEMORY	RAM	16 KB SRAM with Hardware Parity
STORAGE	Embedded	128 KB Flash
I/O INTERFACES	Digital Input	4x Digital Input Ports Input Range: 0 – 36 V Optoisolation: 5 kV (2.7 kV RMS) Low Level Voltage: 0-1 V High Level Voltage: 2-36 V 0/1 Level Threshold: 1V/2V (Factory Option: Customizable)
	Digital Output	4x Digital Output Ports Optoisolation: 5 kV (2.7 kV RMS) Open Drain Output Transistors: 60 V AC/DC Output: 0.5 A MOSFET (with 0.5 A Fuses)
	Analog Input	4x Analog Input Ports Input Range: 0 – 36 V ADC Conversion: 12 bit Sigma Delta Sampling Frequency: 1 kHz Max Input Protection Circuitry (5 kV DC) Factory Option: 4 – 20 mA Current Loop Compatibility
	Other Input	Factory Options: 3x PWM Programmable Inputs 1x Odometer Mode 1x Phase Angular Encode Mode All Optional Inputs with Optoisolation: 5 kV (2.7 kV RMS)
OTHER	LEDs	4x Digital Output Status 2x Programmable
POWER	Input	Provided by ReliaGATE 10-12
	Consumption	0.3W Typ.
ENVIRONMENT	Operating Temp	- 20 to +70°C
	Storage Temp	- 40 to +85°C
CERTIFICATIONS	Regulatory	FCC/ISED, CE
	Safety	EN60950 (Including UL Deviations to EN60950)
	Environmental	RoHS2; REACH
	Ingress	IP40
MECHANICAL	Enclosure	Material: ABS - Color: Aluminum
	Dimensions	90.4x43.7x58 mm (LxWxH)

## SOFTWARE

IoT Framework	Everyware Software Framework (Java/OSGi)
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