



- 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 Edge 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

## Description

The ReliaIO 10-12 is a fast and simple way to expand the capabilities of Eurotech Multi-service IoT Edge 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.

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

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

The 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 Edge Gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with [Everyware Cloud \(EC\)](#), [Eurotech IoT Integration Platform](#) (separately available).

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

### Ordering code: REIO-10-12-01

<b>PROCESSOR</b>	MCU	STM 32F072XX - 32 bit ARM Cortex M0
<b>MEMORY</b>	RAM	16KB SRAM with Hardware Parity
<b>STORAGE</b>	Embedded	128KB Flash
<b>I/O INTERFACES</b>	Digital Input	4x Digital Input Ports – 0-36V Input Range, 5kV (2.7kV RMS) Optoisolation, 0-1V Low Level Voltage, 2-36V High Level Voltage, 1V/2V 0/1 Level Threshold (Customizable as Factory Option)
	Digital Output	4x Digital Output Ports – 5kV (2.7kV RMS) Optoisolation, 60V Open Drain Output Transistors, 0.5A MOSFET AC/DC Output (with 0.5A Fuses)
	Analog Input	4x Analog Input Ports – 0-36V Input Range, 12bit Sigma Delta ADC Conversion, 1kHz Max Sampling Frequency, Input Protection Circuitry (5kV DC). Factory Option: 4-20mA Current Loop Compatibility
	Other Input	Factory Options: 3x PWM Programmable Inputs, 1x Odometer Mode, 1x Phase Angular Encode Mode. All Optional Inputs with Optoisolation: 5kV (2.7kV RMS)
<b>OTHER</b>	LEDs	4x Digital Output Status, 2x Programmable
<b>POWER</b>	Input	Provided by ReliaGATE 10-12
	Consumption	0.3W Typ.
<b>ENVIRONMENT</b>	Operating Temp	- 25 to +85°C
	Storage Temp	- 40 to +85°C
<b>CERTIFICATIONS</b>	Regulatory	CE, FCC, ISED
	Safety	EN 62368, UL 60950 (§)
	Environmental	RoHS2, REACH
	Ingress	IP40
<b>MECHANICAL</b>	Enclosure	Material: ABS - Color: Aluminum
	Dimensions	90.4x43.7x58 mm (LxWxH)

### Software

<b>SOFTWARE</b>	IoT Framework	Everyware Software Framework (Java/OSGi)
-----------------	---------------	--

(§) UL, NRTL listing Factory Option.