



VIA MAESTRI DEL
LAVORO,30
(ZONA INDUSTRIALE)
56021 CASCINA (PI)
ITALY

CAPITALE SOCIALE
100.000,00 €

C.F. E P.I. 01252870504

 +39 050 711131

 +39 050 711472

 isacsrl@isacsrl.it

 <http://www.isacsrl.it/>

OPRIOMEM00

Fast Input and Out Board + Retentive Memory

Reduced Data sheet

Version: 1

Date: 02.02.2026

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
	CAPITALE SOCIALE 100.000,00 €	
	C.F. E P.I. 01252870504	

Overview



The OPRIO MEM00 module is part of the αRIO family of modules. The module acts as a gateway between the fieldbus layer (EtherCAT) and some hardware facilities. The module allows the connection of up to four digital outputs, which can also be configured as modulated outputs, to drive laser sources for raster engraving. The module enables the connection of an encoder through differential input signals with phase quadrature. The module provides a dry relay contact that automatically closes when the EtherCAT bus is operational; it can be used to safely enable other devices, such as watchdog output. The module provides a nonvolatile memory area (battery less). The module provides up to 16 nonvolatile event or time counters (battery down).

An EtherCAT Bus Coupler module (OPRIO BCM02) is required to interface the OPRIO MEM00 module to the EtherCAT network.

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
--	--	--

Part Number

Code

Code	Description	IO Interfaces
OPRIOMEM00	AlphaRIO Gateway for managing retentive counters (x16), handwheel, fast output (x4), Wd relays	Nr.4 FastOut Nr.1 AB Counter Nr.1 Hardware Enable

Product status

Item	Value
Status	In production: suitable for new application
In production from:	March 2019
In production at least until:	Dec 2028

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
	CAPITALE SOCIALE 100.000,00 €	
	C.F. E P.I. 01252870504	

Technical data summary

Power requirements	
Input Power Supply	7Vdc [powered by OPRIOBCM02 through the internal bus]
BUS Power Consumption	220mA @ 7Vdc [the power consumption of the encoder 5V must be added]
Internal Bus	
Protocol	E-BUS
Environment	
Operating temperature	0 ... 50 °C
Storage Temperature	-10 ... 70 °C [the environment during transportation and storage must be dry and free from dust]
Humidity	Up to 90% without condensation
Overall Dimension	Approx. 108.5mm (H) x 18mm (W) x 80mm (D)
Weight	110 gr.
Protection Class	IP20
Mounting	Standard 35mm DIN rail
Internal functionality	
Timer/Counter	No.16 x 32bit registers
Retentive memory	96KByte Non Volatile Memory Batteryless
I/O Interfaces	
Fast Output	No.4 multifunctional lines p-type (digital outputs, raster outputs)
Encoder Input	No.1 channel differential AB phase counter [with power supply capabilities up to 100mA @ 5V]
Watchdog Hardware Enable	N.O. (Normally Open) Relay Clean Contact 1A/30V
Hardware Diagnostics	
Power Supply	Blue LED
Status	Green LED
Error	Red LED
Fast Output	Orange LED
Software Diagnostic	
GND	Earth connection presence
Firmware	Upgradeable with flash technology via EtherCAT® fieldbus (FOE)
Installation and Weight	

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
--	--	--

Installation	Guida DIN 35mm standard EN 60715
Weight	110 gr.

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
--	--	--

Certifications

Certification	Description
CE	EU Declaration of Conformity: EMC Directive 2014/30/UE Standards used: EN 61000-6-2:2019 EN 61000-6-4:2019
RoHS	Declaration of Conformity: RoHS Directive 2011/65/EU
Origin	Italy
CRA	Yes (pending)

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
--	--	--

Layout and dimension

<i>P/n</i>	<i>Unit</i>	<i>Width</i>	<i>Height</i>	<i>Depth</i>
OPRIOMEM00	[mm]	23	108.5	80

	VIA MAESTRI DEL LAVORO,30 (ZONA INDUSTRIALE) 56021 CASCINA (PI) ITALY CAPITALE SOCIALE 100.000,00 € C.F. E P.I. 01252870504	 +39 050 711131  +39 050 711472  isacsrl@isacsrl.it  http://www.isacsrl.it/
--	--	--

Reference documents

Full technical data sheet: OPRIO MEM00