

# Galil Motion Control



GENERAL  
MICROTECHNOLOGY  
& PHOTONICS



## RIO-574x0

### Data Sheet

[www.gmp.ch](http://www.gmp.ch)

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## Product Description

The RIO-574x0 is a compact, cost-effective EtherCAT I/O slave module. It is packed with digital and analog I/O to be used remotely in an EtherCAT automation system. Although the RIO-57000 can be used with a generic EtherCAT master, it is designed to integrate seamlessly into an EtherCAT system with Galil's DMC-500x0 EtherCAT master.

Each RIO-574x0 has 16 optoisolated digital inputs and 16 high-power, 500mA sourcing, optoisolated digital outputs. The RIO-57420 is expanded to include 8 analog inputs and 8 analog outputs, both configurable in the ranges of 0-5V, 0-10V,  $\pm 5V$ , or  $\pm 10V$ .

The RIO-574x0 can be configured over USB in a few steps using Galil's software and intuitive english-like 2 letter commands.



## Features

- EtherCAT I/O slave module that is compact and cost-effective
- 2 EtherCAT ports and 1 USB port (for configuration)
- Analog & Digital I/O
  - 16 optically isolated inputs
  - 16 optically isolated 500mA outputs
  - 8 analog inputs (on select models) 12bit\*
  - 8 analog outputs (on select models) 12bit\*
- Easy integration with Galil's DMC-500x0 EtherCAT master
- LED indicators for all digital I/O points
- Easy-to-use, 2-letter Galil programming language
- 4.24" x 4.81" x 2.35"; Metal enclosure with DIN clips
- Screw terminal connectors
- Custom hardware and firmware options available

\*16bit option available

# Specifications

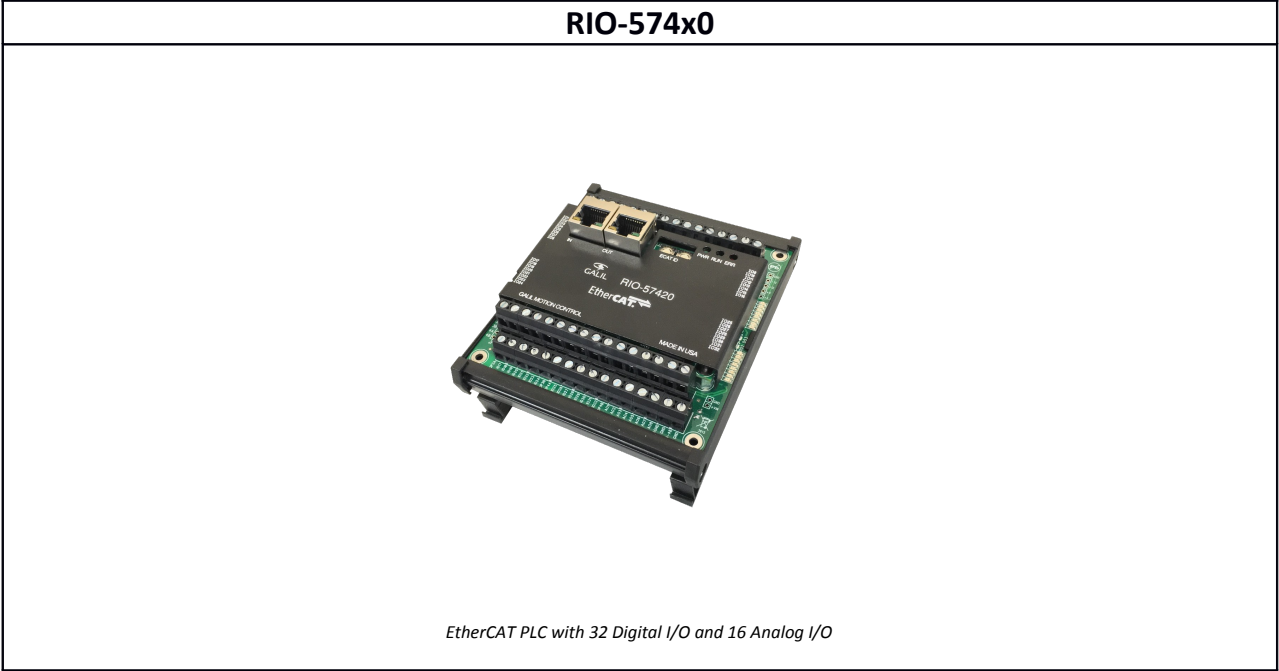
Power and Mechanical	
<b>Power requirements</b>	9-48 V <sub>DC</sub>
<b>Operational temperature</b>	0 – 70 deg C
<b>Humidity</b>	20 – 95 % RH, non-condensing
<b>Dimensions</b>	4.24 × 4.81 × 2.35 inches





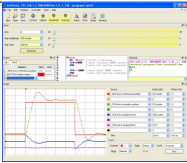
General Purpose I/O				
	Number of I/O		Voltage	Details
	RIO-57410	RIO-57420		
Optoisolated inputs	16	16	5-24 V <sub>DC</sub>	Can be wired as either active high or active low.
Optoisolated outputs	16	16	12-24 V <sub>DC</sub>	500mA Sourcing
Analog Inputs	None	8	±10, ±5, 0-5, 0-10 V	12 bit, 16 bit optional, 4-20mA optional
Analog Outputs	None	8	±10, ±5, 0-5, 0-10 V	4mA sink/source, 12 bit, 16 bit optional

# Ordering Options

Use the Part Number Generator for building your RIO-57000  
<http://www.galil.com/order/part-number-generator/rio-574x0#RIO-57410>



<b>Options</b>	
<b>Part Number</b>	<b>Description</b>
RIO-57410	EtherCAT PLC with 32 Digital I/O
RIO-57420	EtherCAT PLC with 32 Digital I/O and 16 Analog I/O
(NO DIN)	DIN Rail Mount not included (unit comes default with DIN)
(16bit)	16-bit analog inputs
(4-20mA)	4-20mA analog inputs

<b>Accessories</b>		
	<b>Part Number</b>	<b>Description</b>
	PS-2.50-24	60 Watt Power Supply (2.5 Amps @ 24V)
	GalilSuite	Servo Tuning and Analysis with Program Editor and Terminal
	GalilTools	GalilTools programming software for Galil controllers