Galil Motion Control

RIO-574x0

Data Sheet

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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, ±5V, or ±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
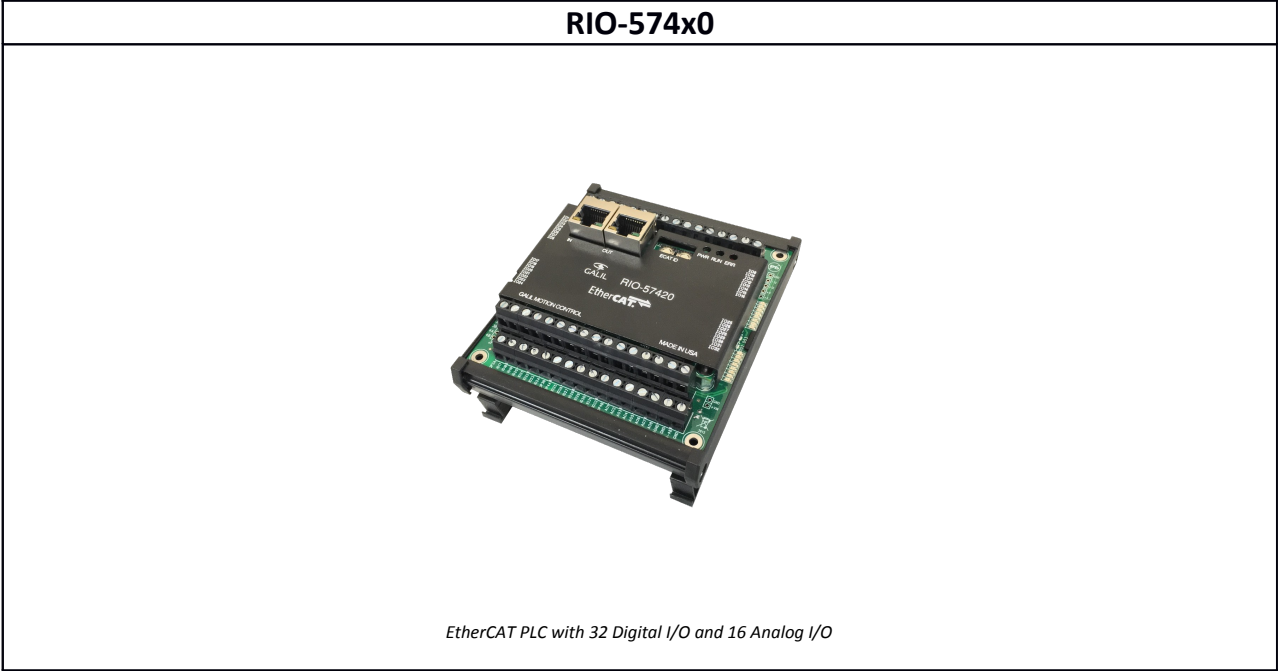
*16bit option available

Specifications

Power and Mechanical	
Power requirements	9-48 V_{DC}
Operational temperature	0 – 70 deg C
Humidity	20 – 95 % RH, non-condensing
Dimensions	4.24 × 4.81 × 2.35 inches

RoHS Compliant
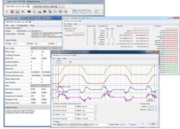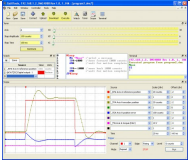
General Purpose I/O				
	Number of I/O		**Voltage**	**Details**
	RIO-57410	RIO-57420		
Optoisolated inputs	16	16	5-24 V_{DC}	Can be wired as either active high or active low.
Optoisolated outputs	16	16	12-24 V_{DC}	500mA Sourcing
Analog Inputs	None	8	±10, ±5, 0-5, 0-10 V	12 bit, 16 bit optional, 4-20mA 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

RIO-574x0

EtherCAT PLC with 32 Digital I/O and 16 Analog I/O

Options	
Part Number	**Description**
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

Accessories

	Part Number	Description
	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