

# SIM6·5

Station interface module

Data sheet

4921240699A



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# 1. About the 600 series

## 1.1 About the hardware modules

The 600 series is a PLC-based programmable automation controller (PAC) suitable for land, marine, and wind power control applications. It is class approved, designed to marine specifications and can withstand very harsh operating conditions.

The controller is a highly flexible, modular PLC and I/O system that is designed for usage across a wide range of industrial applications. It is reliable, robust and flexible.

EtherCAT is used as native communication protocol both as the backplane communication and as interconnection between multiple 600 series racks via electrical or fibre optical connections. Other DEIF EtherCAT I/O modules or third party EtherCAT I/O modules can also be connected.

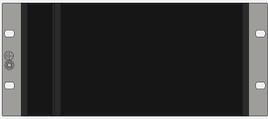
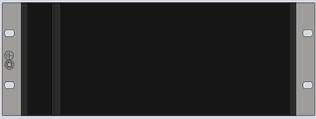
The hardware modules feature:

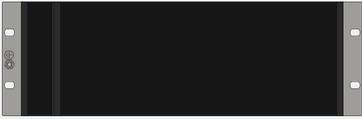
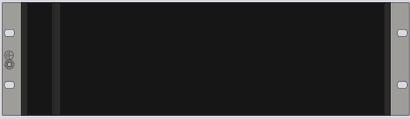
- Placement flexibility in the rack.
- Remove, replace, or add on-site.
- Automatically recognised.
- Configurable input and output functions (digital and analogue):
  - Digital input functions: Commands from operators or 3rd party equipment, changing configuration, operating information.
  - Digital output functions: Alarm status, commands to 3rd party equipment, operating information.
  - Analogue input functions: External set points, operating information, supervised binary inputs.
  - Analogue output functions: Operating information.

**NOTE** All slots must be covered during operation and blind modules can be used to cover unused slots.

### Rack sizes

The controller rack is available in six different sizes:

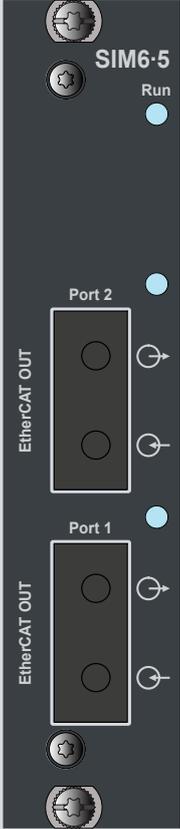
Rack	Slots	Ground plate dimensions HxDxW (mm)	Weight (g)	Rack
Rack6-4	4	122.0 x 113.9 x 182.4	715	
Rack6-6	6	122.0 x 113.9 x 233.2	870	
Rack6-8	8	122.0 x 113.9 x 284.4	1020	
Rack6-10	10	122.0 x 113.9 x 334.8	1175	

Rack	Slots	Ground plate dimensions HxDxW (mm)	Weight (g)	Rack
Rack6-12	12	122.0 x 113.9 x 385.6	1335	
Rack6-14	14	122.0 x 113.9 x 436.4	1500	

## 2. Technical specifications

### 2.1 SIM6-5 module specifications

The SIM6-5 module allows EtherCAT redundancy for the interconnection of multiple racks in a system via fibre optical connections. The Network Interface (NIC) is used for the EtherCAT master.

EtherCAT interface		
 <p>The diagram shows the SIM6-5 module with two EtherCAT OUT ports labeled Port 1 and Port 2. Each port has two circular indicators. A 'Run' indicator is also shown. The module is labeled 'SIM6-5'.</p>	<b>For rack holding EtherCAT master</b>	
	Power supply	From backplane
	Backplane interfaces	1 x EtherCAT IN (Port 0) - LVDS
	Interfaces	1 x EtherCAT OUT (Port 2) Optical: 100BASE-FX, SC connectors, multi-mode fibre glass 50 µm (OM2, OM3, OM4, 1310 nm)
		1 x EtherCAT OUT (Port 1) Optical: 100BASE-FX, SC connectors, multi-mode fibre glass 50 µm (OM2, OM3, OM4, 1310 nm)
	Size	25.40 mm
	Weight	83 g
Power consumption	Typical 3.0 W (2 active fibre channels)	

### Terminal specifications

Configuration: Master station

Terminal	Description
EtherCAT OUT	EtherCAT Logic Port 2
EtherCAT OUT	EtherCAT Logic Port 1

## 3. Legal information

### 3.1 Disclaimer and copyright

#### Third party equipment

DEIF takes no responsibility for the installation or operation of any third party equipment, for example, a **genset**. Contact the **manufacturer** or third party equipment company if you have any doubt about how to install or operate the third party equipment.

#### Open source software

This product contains open source software licensed under, for example, the GNU General Public License (GNU GPL) and GNU Lesser General Public License (GNU LGPL). The source code for this software can be obtained by contacting DEIF at support@deif.com. DEIF reserves the right to charge for the cost of the service.

#### General warranty

The warranty period for the purchased product is defined in the contract and order acknowledgement. In general, DEIF's Terms and Conditions of Sale and Delivery apply.

The product continuously monitors the operating temperature and stores this information in a log file on the device. DEIF uses this information for service purpose and to validate if issues with the product are covered by the warranty.

The software packages supplied are believed to be of the highest quality. Due to the nature of the software development process, it is possible that there are hidden defects in the software which may affect its use, or the operation of any software or device developed with this software package.

DEIF does not undertake responsibility for determining whether this package is suitable for the application, nor for ensuring the correct operation of the application software and hardware.

The warranty does not cover product wear parts, such as:

- Internal flash disc
- If applicable, SD card (purchased separately)
- Replaceable coil-cell battery, used for the real-time clock (available as a spare part)

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