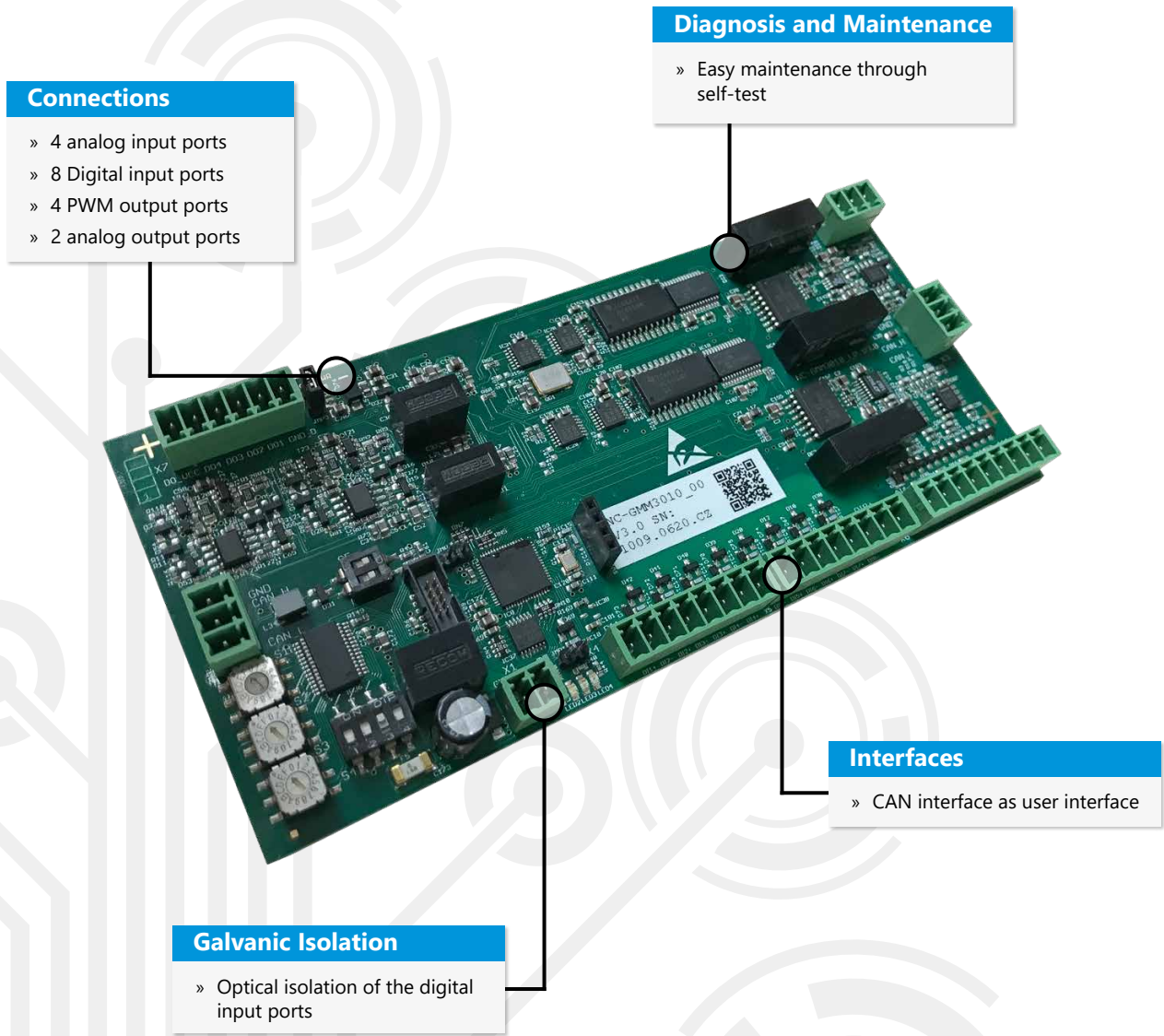


NovaCarts CAN Multi I/O Module

This top-hat rail module is a measuring and control board for versatile deployment. Four configurable PWM output ports can be used, for example, to control motor or sensor simulations. In addition, two analog ports can also output voltages of up to 20 V with 16-bit resolution.

A total of eight digital and four analog input ports with optical isolation are available. All input ports are protected against electrostatic discharge (ESD), and all output ports are resistant to short-circuit. Connection to the system is effected via a CAN interface (high-speed CAN) with addressing configured by rotary switch. Furthermore, the module's software permits calibration and a self-test. The top-hat rail module comes with push-in plug connectors, allowing it to be wired up easily without any tool required. Two plug connectors for CAN interfaces offer the possibility of cascading, as well.



Connections

- » 4 analog input ports
- » 8 Digital input ports
- » 4 PWM output ports
- » 2 analog output ports

Diagnosis and Maintenance

- » Easy maintenance through self-test

Interfaces

- » CAN interface as user interface

Galvanic Isolation

- » Optical isolation of the digital input ports

Data Sheet

Module name: **NC-GMM3010**

Data sheet version: **1V1**

Features

Analog input ports	4
Digital input ports	8
Analog output ports	2
PWM output ports	4
Power supply	7 - 28 V
Operating temperature	0 to +55 °C
Storage temperature	-20 to +70 °C
Humidity	10 % to 90 % (no condensation)
Dimensions	155 mm x 71.8 mm
Housing	Phoenix UMK-BE series – total width: 147 mm
Connection to RT system	CAN

Specifications

Analog Output

Number of channels	2
Output voltage	0 – 20 V
Accuracy	+/- 1 %
Resolution	16 bit
Output current	10 mA

PWM Output

Number of channels	4
Output voltage	Internal or external power supply
Operating modes	Push-pull, open collector
Output current	500 mA
Frequency	20 Hz – 20 kHz
Duty cycle resolution	1 %

Digital Input

Number of channels	8
Input voltage	0 - 24 V
Galvanic Isolation	Channel to channel Channel to system

Analog Input

Number of channels	4
Input voltage	0 - 24 V
Sampling rate	100 Hz
Resolution	16 bit
Galvanic Isolation	Channel to system