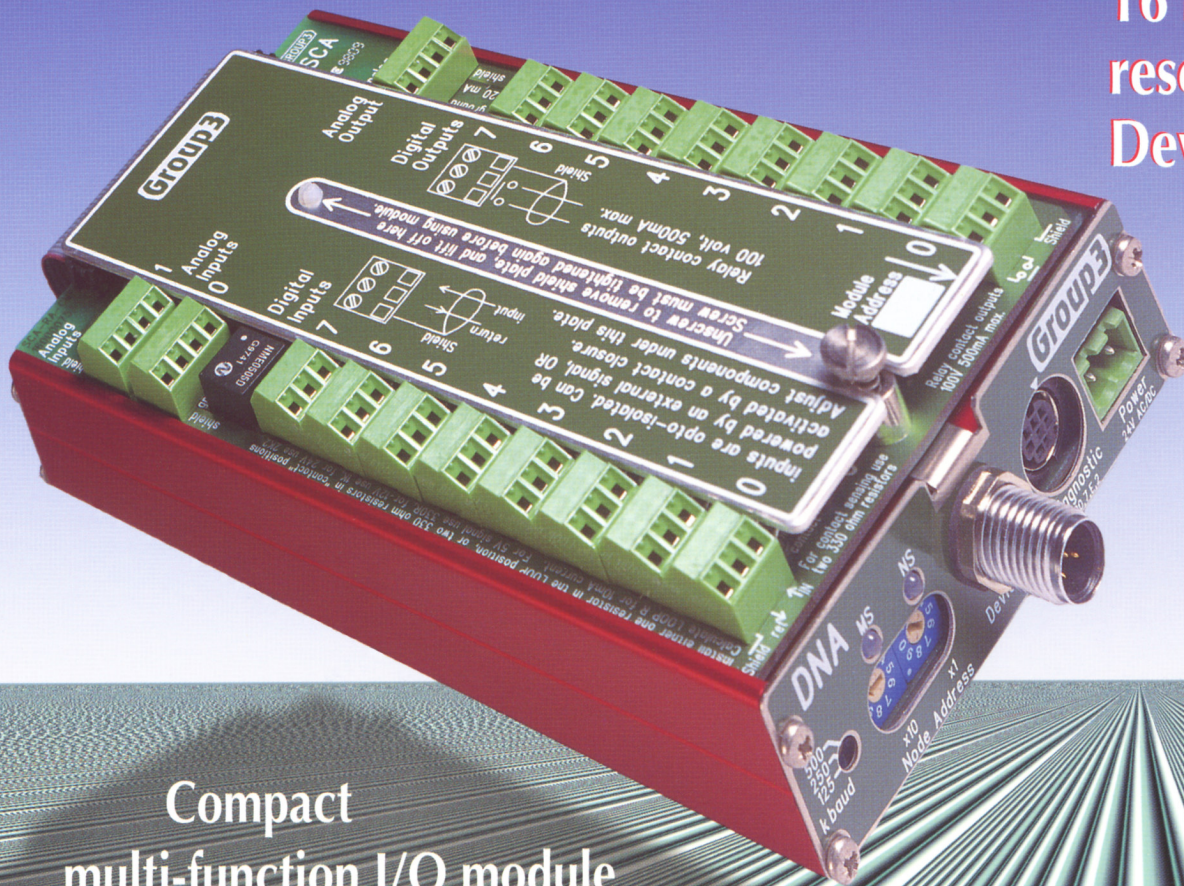


Group3 DNA

DeviceNet™ I/O Module

16 bit analog
resolution on
DeviceNet™



Compact
multi-function I/O module

- 1 Analog Output - 16-bit
- 2 Analog Inputs - 16-bit
- 8 Digital Outputs - relay contacts
- 8 Digital Inputs - opto-isolated
- High noise immunity
- Embedded PID algorithm for closed loop control

DNA *DeviceNet*™ I/O Module

The DNA is a precision control and monitoring module, offering both analog and digital channels in one small package. The DeviceNet™ protocol is used for all I/O data and configuration parameters. It incorporates many noise resistant features that allow it to operate successfully in harsh electrical environments. In addition to acting as a simple I/O device, an embedded PID function can be enabled to run closed loop control.

Features:

Eight Digital Inputs	Opto-couplers; selectable to sense contact closure, or powered by the input signal.
Eight Digital Outputs	Relay contacts; rated at 100 volt, 500mA. Max. switched power 10W
Two Analog Inputs	16 bit resolution, bipolar, each with differential inputs. Each channel sampled 30 times per second. Input Ranges: ± 10 Volt and ± 100 mV
One Analog Output	16 bit resolution, output selectable: ± 10 volt range, or 4 to 20 mA current output.
Closed Loop Control	PID control can be selected, enabling the unit to act as a controller.
DeviceNet™ Interface	Baud rate externally settable to 125k, 250k, or 500kbaud. MACID - address externally settable by two rotary switches, in the range 0 to 63. Full "Parameter Object" implementation - 88 parameters accessible. DeviceNet™ connector - sealed micro 5 pin circular, M12. Isolated physical layer - processor and all I/O are isolated from DeviceNet™. DeviceNet™ power draw - 50 mA.
Diagnostic Port	RS-232 Port allows configuration and local control over-ride from a terminal with a serial port.
Transient Protection	All I/O pins on the main board have fast acting, voltage limiting components, coupled with further suppression and isolation on the I/O board.
Robust Software	Self diagnosing and fault tolerant software allows graceful recovery from an upset without operator intervention.
Rugged Metal Case	All metal enclosure, with an integral DIN rail locking system. Excellent shielding from electrical transients.
Quick Replacement	No tools are required to remove the module from an installation.
Small Size	Dimensions, with DIN rail mounting; 170 mm long x 92 mm wide, x 52 mm.
24V Power Supply	Auxiliary 24 volt power required, 3 Watts. 18 to 36 volt DC, or 14 to 26 volt (rms) AC.

This module represents the DeviceNet™ implementation of the CNA - a module in the Group3 Control System. The Group3 system uses fiber optics for all communication, and is recommended for use in high voltage or extremely high noise environments. Obtain further information from the Group3 website, or your distributor.

Group3

Group3 Technology Ltd., 2 Charann Place, Avondale, Auckland 7, New Zealand. P.O. Box 71-111 Rosebank, Auckland 7, New Zealand.
Phone +64 9 828-3358 Fax +64 9 828-3357 Email: info@group3technology.com Web: <http://www.group3technology.com>

Specifications subject to change without notice

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