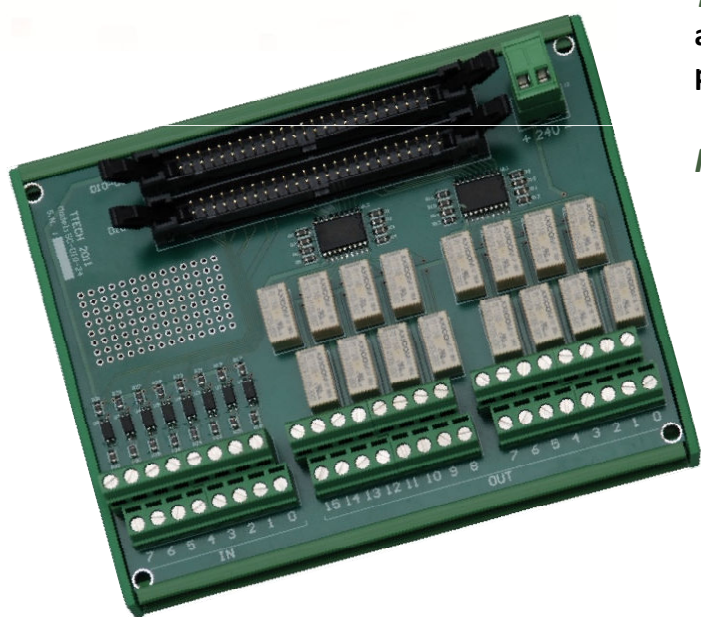




Conditioning interface for National Instruments Digital I/O boards



T.Dio is the best price/value solution for the interfacing to any digital input/output signal and to low and medium power loads.

MAIN FEATURES:

- ⊙ 8 fully independent optoinsulated digital inputs
- ⊙ 16 fully independent and galvanically separated digital outputs ("free contacts" outputs)
- ⊙ Single power supply DC 24 V
- ⊙ Compatible with NI DIO type 6503 (24 channels) and 6509 (96 channels) boards
- ⊙ Fast interconnection to National Instruments boards, through 50-way flat cable
- ⊙ No software required. Completely programmable with National Instruments NI DAQ MX / LabVIEW software

TECHNICAL SPECIFICATIONS

Specification	Ranges	Description
Digital Input	<ul style="list-style-type: none"> ➤ Working voltage : 0÷24Vdc ➤ Maximum voltage : 30Vdc ➤ Current : 10mA (max. 13mA) 	8 channels (fully independent ,optoinsulated)
Digital Output	<ul style="list-style-type: none"> ➤ Working voltage : 0÷30Vdc ➤ Maximum voltage : 220Vdc ➤ Current: 1A 	16 channels (fully independent, SPST relay free contact output)
Expected mean life	10 ⁵ switches	
Power	<ul style="list-style-type: none"> ➤ Min. 20 V DC ➤ Typical : 24 V DC ➤ Max: 36 V DC 	Power consumption: 5 W max
Dimensions	LxHxD : 145 x 45 x 120 mm	

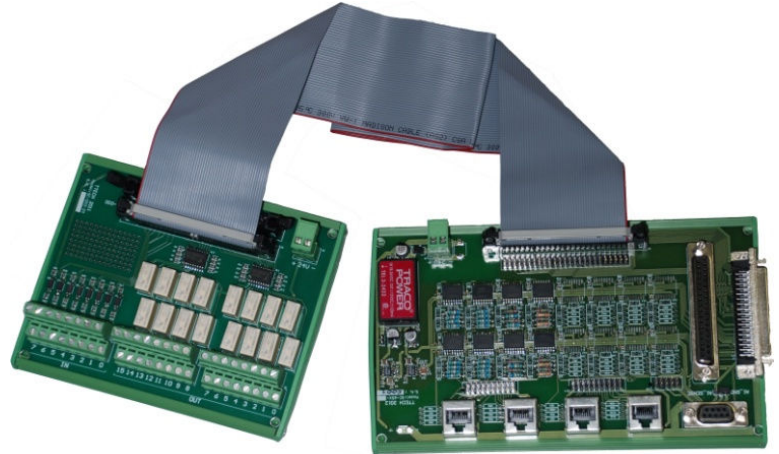
EXPANSION AND MODULARITY

T.Dio board can be connected to Ttech *T.Daq* board to achieve a compact and complete solution to the interfacing of both analog and digital signals.

The connection between the boards is made with a common 50-way flat cable, available on request.

The *T.Dio* and *T.Daq* modularity allow the realization of several “turnkey” configurations for signal conditioning and data acquisition, without the need of complex cabling.




The coupling between *T.Dio* and *T.Daq* allows to take advantage of all the resources of a DAQ card without thinking about the design of the signal conditioning.



APPLICATIONS

- ⊙ Laboratory automation
- ⊙ Data acquisition systems
- ⊙ Testing machines
- ⊙ Automation control
- ⊙ Automatic measurement systems

CONFIGURATION EXAMPLES

Configuration	Daq board	T.Daq	T.Dio	Description
				
16 Analog input 2 Analog output 8 Digital input 16 Digital output	NI 6221 NI 6251	1	1	Small channels count systems, either analog and digital, small applications with little automation
32 Analog input 4 Analog output 16 Digital input 32 Digital output	NI 6229 NI 6259	2	2	Substitute for high number channels measure systems, with high I/O number
8 Digital input 16 Digital output	NI 6503 DIO 24		1	Small automation
32 Digital input 64 Digital output	NI 6509 DIO96		4	Machine automation with higher I/O signal count