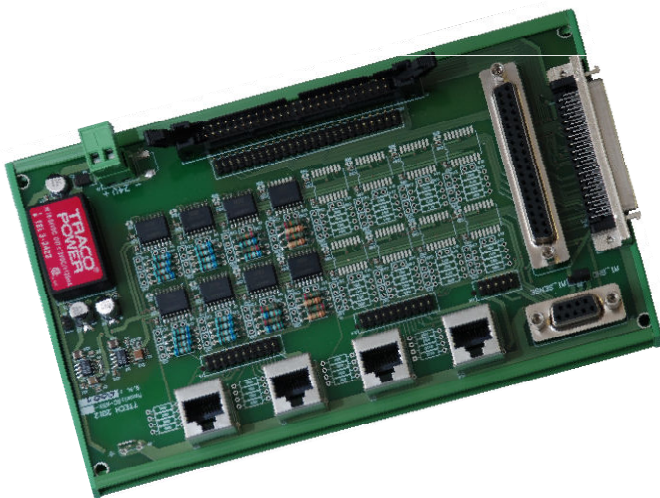




Conditioning interface for National Instruments Multifunction DAQ boards

T.Daq is the best price/value solution for the interfacing to any Data Acquisition board and the conditioning of low and medium frequency analog signals



MAIN FEATURES:

- ⊙ Analog input channels configurable measure range from $\pm 2\text{mV}$ up to $\pm 50\text{ V}$
- ⊙ Single power supply DC 18-36 V
- ⊙ 16 differential measure channels
- ⊙ Compatible with NI MIO DAQ (SCSI 68pin and DB37pin), M series boards.
- ⊙ Fast RJ45 connectors to the field
- ⊙ Expandable with fast prototyping boards, customizations (piggy-back)
- ⊙ No software required. Completely programmable with National Instruments NI DAQ MX / LabVIEW software

TECHNICAL SPECIFICATIONS

Specification	Ranges	Description
Analog Input	<ul style="list-style-type: none"> ➤ Min. $\pm 5\text{ mV}$ ➤ Standard : $\pm 5\text{ V}$, $\pm 10\text{ V}$ ➤ Max: $\pm 50\text{ V}$ ➤ Frequency: DC to 100 kHz 	16 channels (the other analog input features than the input range are the ones of the DAQ board; the Maximum Analog input range is linked to hardware configuration)
Analog Output	<ul style="list-style-type: none"> ➤ Standard : $\pm 10\text{ V}$ 	2 channels (the analog output features are the ones of the DAQ board)
Digital I/O	<ul style="list-style-type: none"> ➤ Standard: 0-5 V 	24 channels (the I/O features are the ones of the DAQ board)
Power	<ul style="list-style-type: none"> ➤ Min. 18 V DC ➤ Typical : 24 V DC ➤ Max: 36 V DC 	Power consumption: 5 W max
Dimensions	LxHxD : 195 x 45 x 120 mm	



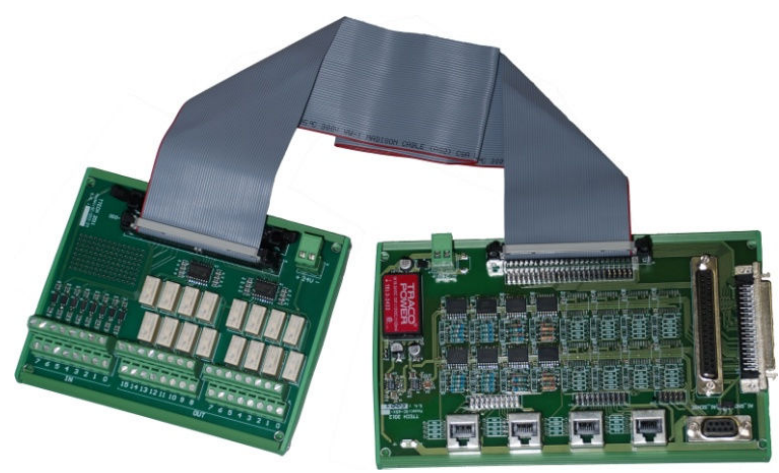
EXPANSION AND MODULARITY

T.Daq board can be connected to Ttech *T.Dio* 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.Daq* and *T.Dio* modularity allow the realization of several “turnkey” configurations for signal conditioning and data acquisition, without the need of complex cabling.



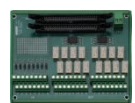
The coupling between *T.Daq* and *T.Dio* allows to take advantage of all the resources of a DAQ card without thinking about the design of the signal conditioning.



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