

## Features



- 16 Differential numeric inputs (separated in 4 groups on the board)
- Two versions of the board :

	Low voltage	High voltage
Reference	5050-0608-2-BT	5050-0608-2-HT
Low level	0V to 0,8V	0V to 1V
High level	3V to 6,5V	10V to 60V
Inom	5mA	5mA
Fmax	100KHz	100KHz

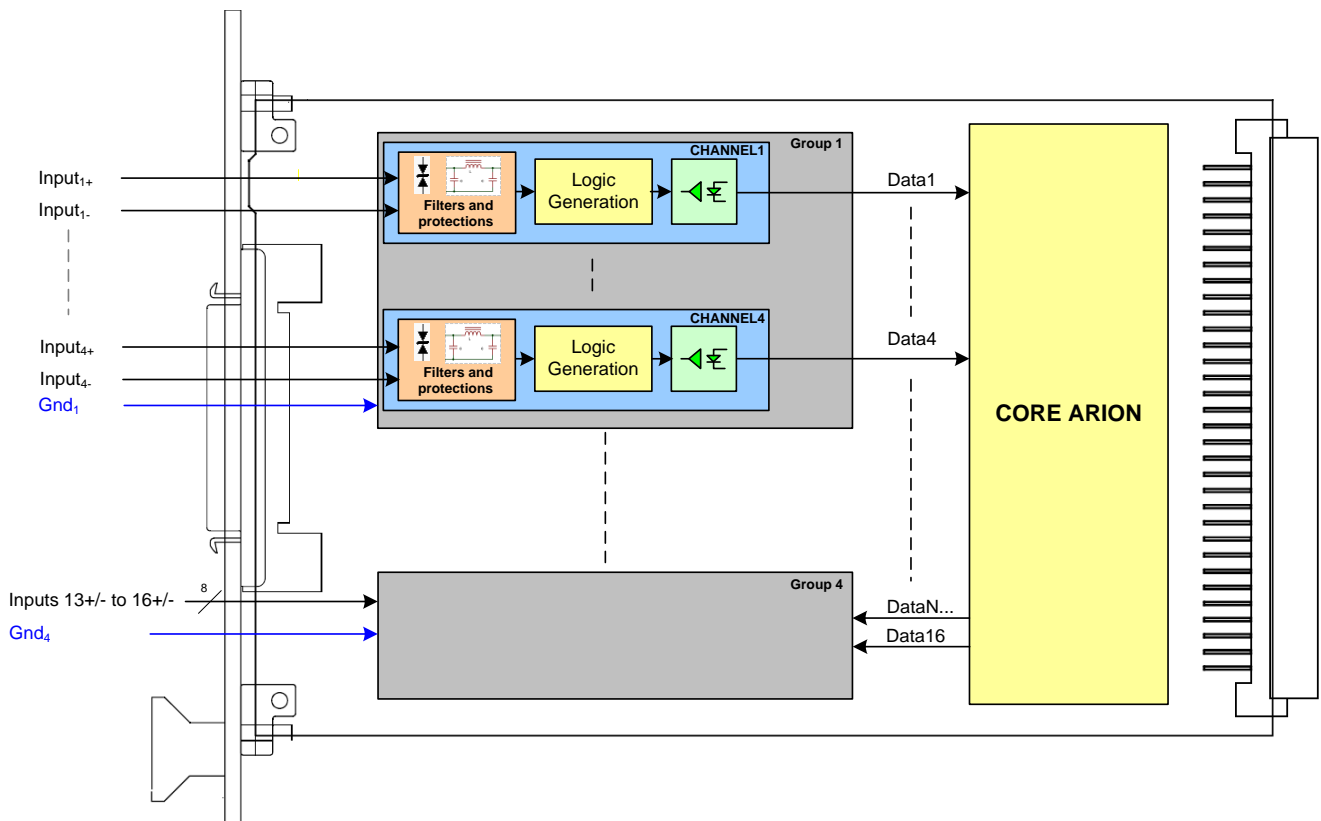


- Optically isolated: provides a direct connection to industrial equipments
- Common mode transient immunity of 100V/μs
- All outputs are protected from transient voltage spikes, short-circuits and overvoltage

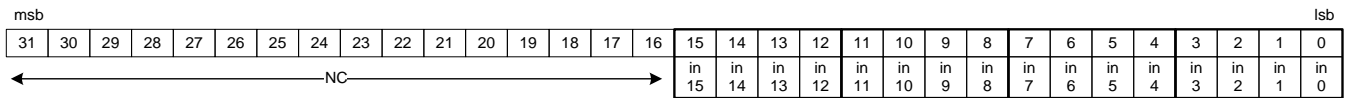
## Physical and environmental condition

Dimensions: 3U format (length 160mm) x 3T  
 Temperature: Industrial range temperature -40°C / +85°C  
 Weight: 300g  
 Consumption: 200mA for analogical 5V line and 300mA for numerical 3.3V line

## Block diagram



Remark: Each channel of a group shares the same ground but is isolated from the other groups.

**Data coding:**

**Arion operating modes**

Regarding the data acquisition of Arion-IO boards, three operating modes are available.  
 These 3 modes can ONLY be used in 'Global Channel'; See Configuration documentation for more information.

**1. Cyclic mode: default mode**

On cyclic trigger, the data are acquired from the inputs of the board.

*Remark: The cyclic trigger is created by a configurable timer. This timer is set during the configuration step.*

**2. Up-Sampled mode: this mode works like cyclic mode but with N samples.**

On cyclic trigger, a sub-cycle is defined to acquire N data samples from the inputs of the board.

*Remark: The N number of samples has to be defined during the configuration step.*

**3. Event: this mode is only available on Numeric Input Boards.**

When the values of the inputs change, the data are acquired and available on the system.

*Remark: A filter on the inputs can be set during the configuration step.*