

Features



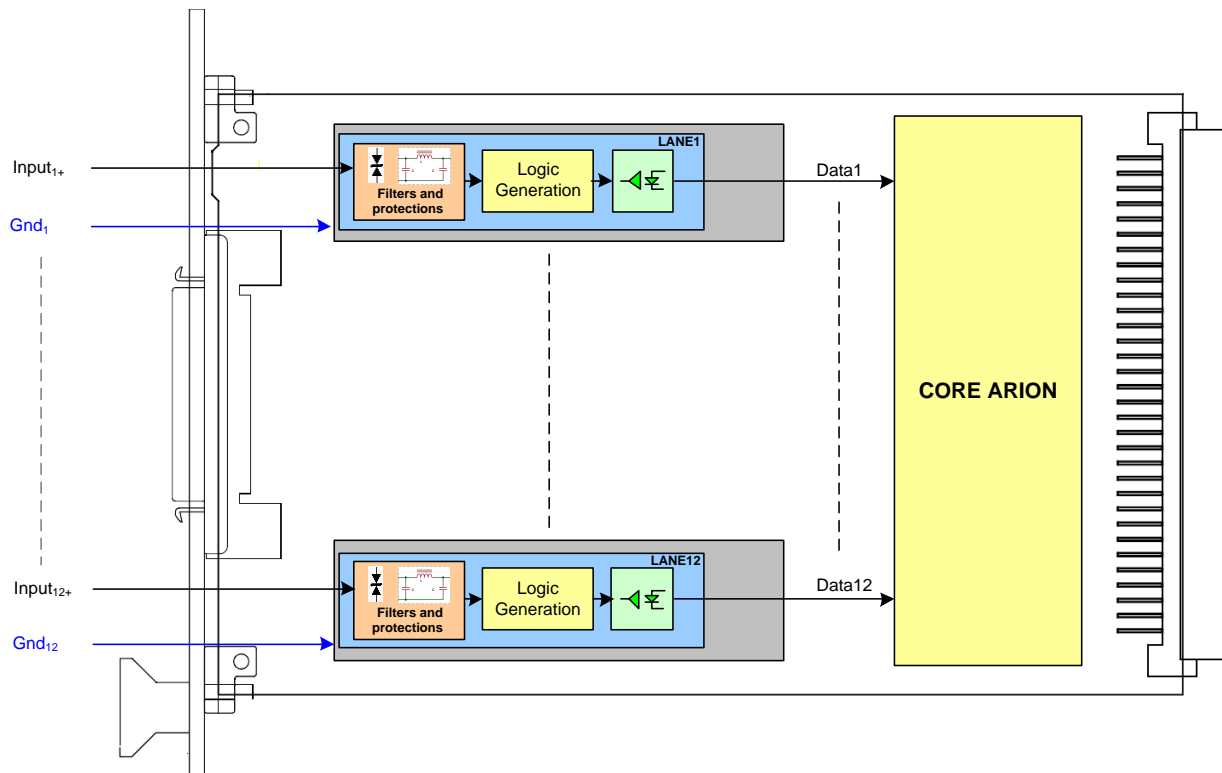
- 12 inputs for frequency measurement
- Frequency range: 0,1Hz to 1MHz
- Period measurement error max: $\pm 0.2\%$
- Trigger level: 1V
- Maximum input voltage: 60V
- Maximum input current: 4.5mA
- Time stability: Result is delivered by a 16 period averaging
- Optically isolated: provides a direct connection to industrial equipments
- Common mode transient immunity of 100V/ μ s



Physical and environmental condition

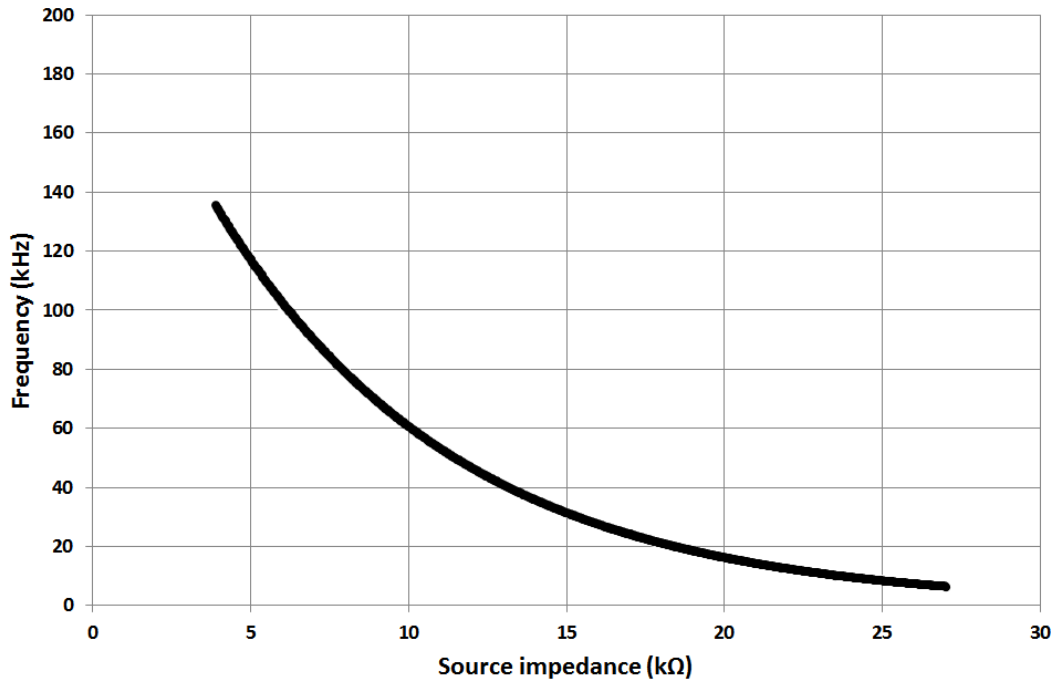
| | |
|--------------|--|
| Dimensions: | 3U format (length 160mm) x 3T |
| Temperature: | Industrial range temperature -40°C / +85°C |
| Weight: | 300g |
| Consumption: | 200mA for analogical 5V line and 300mA for numerical 3.3V line |

Block diagram



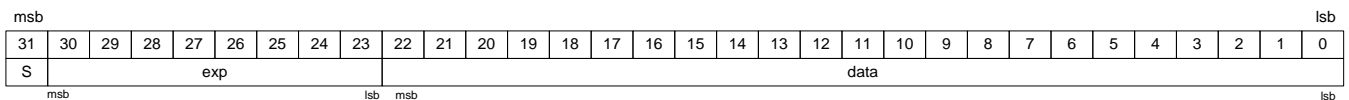
Maximal frequency measurement

Vin = ±5V at 25°C.



Data coding

32 bits float data (IEEE754).



Arion operating modes

Regarding the data acquisition of Arion-IO boards, 2 operating modes are available.
 These 2 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.