

## Features



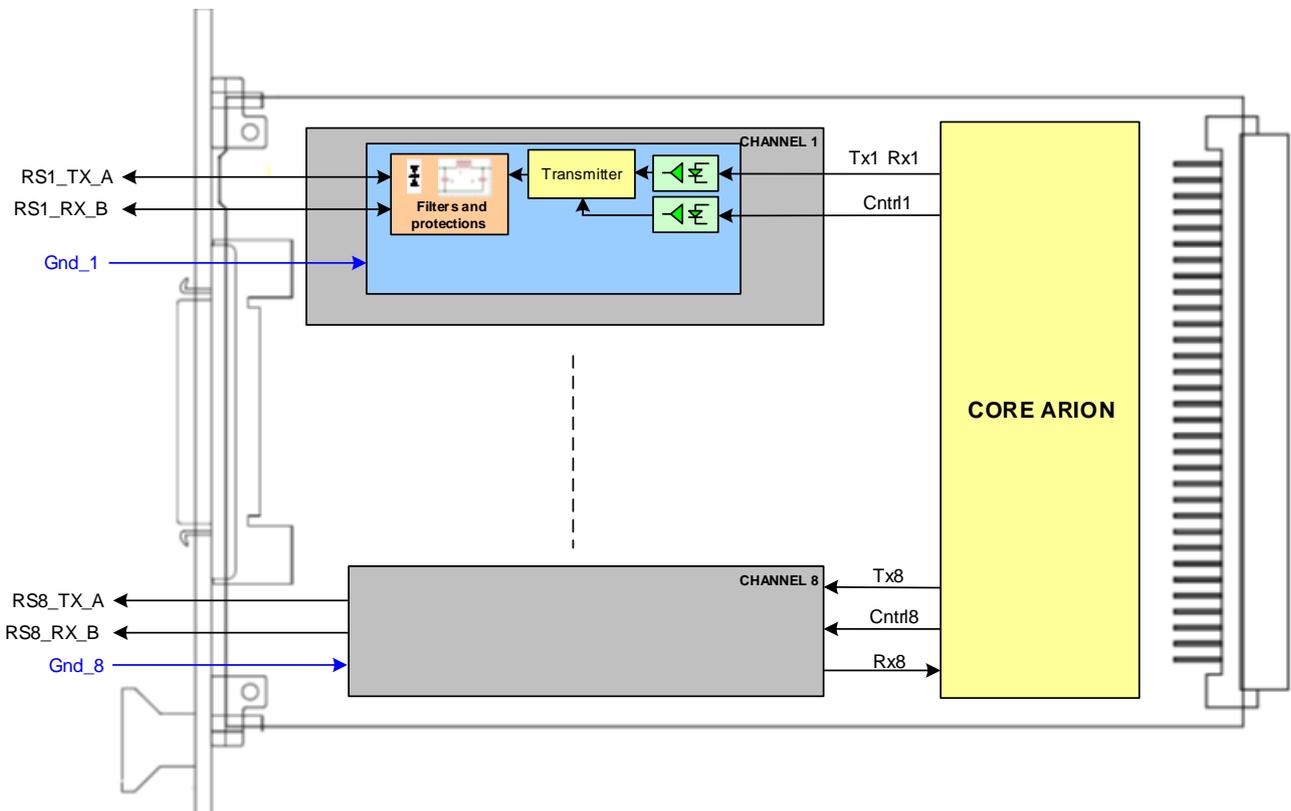
- 8 serial interface channels with configurable baudrate:
  - 1200 baud
  - 2400 baud
  - 4800 baud
  - 9600 baud
  - 19200 baud
  - 38400 baud
- Configurable RS-232 or RS-485 layers.
- Configurable 120Ω terminator resistors for RS-485 layer.
- Optically isolated: provides a direct connection to industrial sensors and actuators.
- Common mode transient immunity of 100V/μs
- All inputs 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: 800mA for analogical 5V line and 2A for numerical 3.3V line

## Block diagram



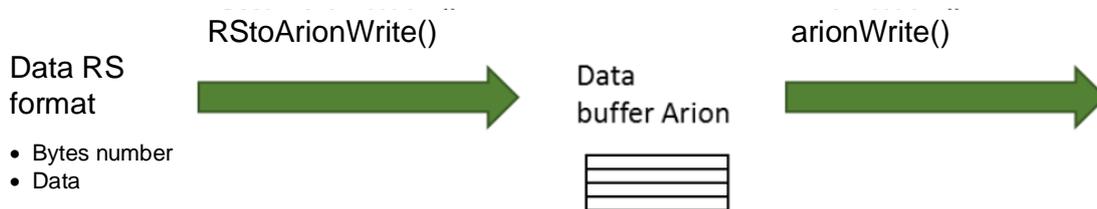
This board realizes the transmission of data on the RS232/485 layer with basic serial protocol.

The following format applies:

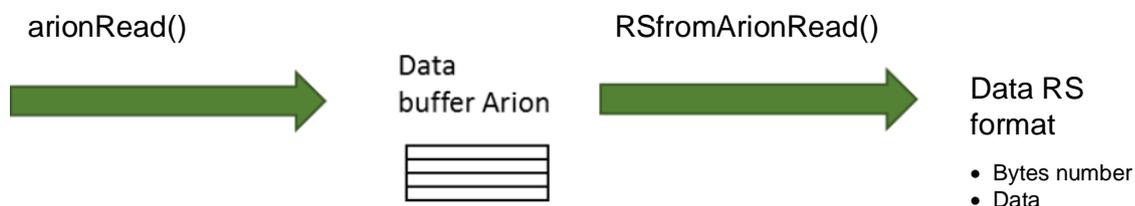
- 1 start bit
- 8 data bits
- 1 stop bit
- No parity
- Configurable baudrate

Conversion function for the RS232/485 frame abstraction are required to send or receive frame. The sending or receiving of a frame needs two step as below.

Send a frame:



Receive a frame:



### Arion operating modes

Regarding the data of Arion-IO boards, the following operating modes are available:  
*These modes can be used in 'Global Channel' or 'Channel List'; See Configuration documentation for more information.*

1. **Input mode:** *Two modes can be used*
  - When the input buffer is full, data acquired are sent to the system.
  - When a time-out appends, the input buffer is sent to the system.
  
2. **Output mode:**

The data are set to the outputs of the board when the user writes data.