# SENT CONTROLLER
## SENT-2-3C-CAN2

# OVERVIEW

The SENT Controller from ART logics is a test controller used for SENT signal test. It offer 2 SENT input for the sensors with SENT signals and 3 counter could be used for encoder, grating,etc.
In additional, it also offer 2 analog input, 5digital output and 2 Normal CAN for test control.

The SENT controller can run a configurable set of commands or sequences of commands to control a set of extendable resources in a Real-Time and synchronized environment. The user can interface with the CAN Logger using the ART Logics Software, C# API or the LabVIEW VIs which offers an integrated and reliable solution to perform and automate different functions such as calibration, R&D debugging, validation, testing, etc.

## DIMENSION

L*W*H = 177.8mm*147mm*25.65mm

## OPERATING TEMPERATURE

-20 ˚C ~ +60 ˚C

## POWER REQUIREMENT

DC power supply:
5VDC, 1A

## KEY FEATURES

- SENT signal logging.
- Real-Time commands sequencer and controller with a USB communication interface.
- Offers Ethernet, CAN, Analog inputs, Digital inputsand outputs channels.
- Programmable power supply control via RS232.
- Supports SCPI, Modbus and other communication protocols.
- Built in SD Card to store sequences and run as a standalone device.
- Comes with a user-friendly graphical software, C# API and LabVIEW VIs to create sequence plans and view results.

The SENT controller can communicate with a host over a USB 2.0 in Full Speed, or over an IP network using TCP with a 100 Mbps Ethernet Link. In each case, the communication between the host and the board uses the same protocol; only the medium carrying the data varies.

Once the sequence plans are configured and uploaded to the board, it is capable of running in a standalone manner without the intervention of a host with the help of the SD Card.

The board offers also a RS232 interface with a configurable baudrate to control an external power supply via SCPI.

## THE FOLLOWING LIST REPRESENTS THE RESOURCES AVAILABLE IN THE SENT CONTROLLER:

| Resource | Channels | Specifications |
|---|---|---|
| SENT Inputs | 2 | SAE J 2716 |
| Digital Inputs | 3 | Logic low is between 0v and 1.23v<br>Logic high is between 3.3v and 5v |
| Digital Outputs | 5 | Push-pull<br>Logic low is 0v<br>Logic high is configurable. |
| Analog Inputs | 2 | Differential range between -5v and 5v. |
| CAN | 2 | Configurable terminal resistance (None or 120Ω).<br>Configurable Baud rate up to 1 Mbit/s. |

| Communication Interface | Parameters |
| --- | --- |
| Ethernet | TCP/IP<br>10/100 Mbps link |
| USB-C | USB 2.0<br>5V Power |
| RS-232 | Baudrate up to 921600 bps |

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