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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.

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.

DIMENSION

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

OPERATING TEMPERATURE

-20 ˚C ~ +60 ˚C

POWER REQUIREMENT

DC power supply:
5VDC, 1A

DETAILED SPECIFICATIONS:

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 Logic high is between 3.3v and 5v**
Digital Outputs	**5**	**Push-pull Logic low is 0v Logic high is configurable.**
Analog Inputs	**2**	**Differential range between -5v and 5v.**
CAN	**2**	**Configurable terminal resistance (None or 120Ω). Configurable Baud rate up to 1 Mbit/s.**

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

DIMENSION

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

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