

# Sent protocol pdf

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
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The number of data nibbles per message can be configured between and the basic SENT protocol tick length, which defaults to microseconds, can be varied on the fly. This application note describes the SENT/SPC driver for the MPC bit family of microcontrollers. The Single-Edge Nibble Transmission (SENT) protocol transports high-resolution sensor data for temperature, pressure, throttle position, and mass airflow in automotive. This document defines a level of standardization in the implementation of the digital pulse scheme for reporting sensor information via Single Edge Nibble Transmission (SENT). The demo driver can configure all the channels for each SENT instance. The basic unit of time in SENT is called a tick, where a tick can be Key Features The SENT protocol is a one-way, asynchronous voltage interface which requires three wires: a signal line (low state V), a supply voltage line (5 V) and a ground line. SENT uses pulse-width modulation to encode four bits (one nibble) per symbol. SENT is a point-to-point protocol, operating between a sensor and an Electronic Control Unit (ECU). The sensor emits data continuously over the link while the ECU receives and processes the data. Each SENT instance has its own static configuration structure in sent.c file (SENT\_0\_Static\_Config). This application note describes the SENT SPC protocol and demonstrates how to use a Teledyne LeCroy oscilloscope to verify a consistent Master Trigger Pulse (MTP) length. Single Edge Nibble Transmission (SENT) protocol as specified by SAE J. The card provides SENT input (order) and output channels. Based Sensor. The fundamentals of the Single Edge Nibble Transmission protocol (SENT, SAE J), along with its Short PWM Code (SPC) enhancement, are discussed in the overview section of the document. Highlights. The protocol is designed for point-to-point transmission of signal values, using a signal system based on successive falling edges. The driver implementation, API, state diagrams, and the SENT protocol structure. It allows for high-resolution data. X.Y. GND. AURIXTM. SENT J\_ standard compatible module supporting standard SENT unidirectional communication as well as supports bidirectional communication with multiple sensors on a single SENT bus using SPC. Supports ticks time in the range of us to us. The following image conveys the overall aspect of a few SENT messages (3  $\mu$ s TickTime), when observed with an oscilloscope. Figure SENT is a unidirectional, single-wire communications protocol that is based on SAE J, "SENT - Single-Edge Nibble Transmission for Automotive Applications".

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Étape 1 -

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