TC1021

UART On CAN device

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Classic Application:

- Industrial long-distance UART
- Automotive UART-to-CAN integration
- Reliable IoT UART data

Feature Overview

The TC1021 is a UART On CAN device designed to provide a "transparent data transmission" mechanism, meaning that the data format and content at the sending and receiving ends remain consistent, with only the transmission medium switching from UART to the CAN bus physical layer.

The demand for such devices arises from their significant advantages in extending communication range and enhancing noise immunity. These devices solve challenges in fields such as industry, automotive, and the Internet of Things (IoT), enabling users to build more efficient and reliable communication systems. If your project requires integrating UART devices into a CAN bus network, this device is an ideal choice.

Characteristics

- Input Interface: Standard UART, used for data input and output
- Output Interface: Standard CAN bus physical layer interface, used for transmitting CAN signals
- Data Processing: The device transmits data received from the UART through the CAN physical layer

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Specification

Interface	1 x UART (USB2.0) / 1 x CAN
Driver	Driver-free design for Windows and Linux systems, ensuring system compatibility
Terminal Resistor	N/A
UART Baud Rate	Maximum 1 Mbps
Forwarding Delay	< 80 ns
Power Supply	USB
Power Consumption	1 W
Casing Material	Plastic
Dimension	Approx. 94 x 48 x 24 mm
Weight	Net weight: approx. 77 g /Gross weight: approx. 122g
Operating Temperature	-40°C ~ 80°C
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	keep away from corrosive gases

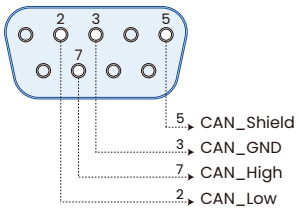
Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1021	UART on CAN device

Shipping list

- TC1021 device

Pin Definitions



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