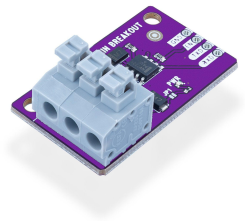
PRODUCT DATASHEET



LIN Transceiver NCV7329 Breakout

333026

The LIN Transceiver NCV7329 Breakout Board enables easy LIN communication for automotive projects, supporting up to 16 devices.

Full product documentation, files and tutorials: **solde.red/333026**

CORE ATTRIBUTES

SKU **333026**

WEIGHT **8 g**

BARCODE **732388673803**

DESCRIPTION

The LIN Transceiver NCV7329 Breakout Board offers a cost-effective and efficient solution for implementing Local Interconnect Network (LIN) communication in automotive and embedded systems. Designed for integration with microcontrollers It's ideal for hobbyists and professionals looking to add in-car networking capabilities to their projects without complexity.

This breakout board simplifies the development of LIN-based communication systems, making it perfect for various automotive components such as window motors, seat controls, and climate sensors. Its compatibility with standard microcontrollers, including Arduino platforms and Soldered NULA boards.It ensures a broad range of applications for both prototyping and final product integration. The board's design prioritizes ease of use, allowing developers to quickly establish communication with up to 16 devices on a single LIN bus.

With its open-source design and comprehensive documentation, the NCV7329 breakout board empowers users with full control and customisation options. Manufactured in the EU to high-quality standards, it comes with full technical support. Choose the LIN Transceiver NCV7329 Breakout Board for a reliable, affordable, and well-supported solution for your communication needs.

TECHNICAL DETAILS

- LIN bus transceiver compliant with ISO 17987-4 and SAE J2602
- **Bus voltage tolerance:** ±42 V with automotive transient protection
- **Data rate:** 1 kbps to 20 kbps (max 20 kbit/s)
- Supports up to 16 devices on a single LIN network
- **Maximum bus length:** 40 m
- Integrated slope control for reduced EMI
- TxD timeout and undervoltage protection
- Thermal shutdown for enhanced reliability

- Low-power sleep mode to minimize current consumption
- Standby mode with wake-up event detection on LIN bus
- **Operating voltage:** 18 V
- **Compact dimensions:** 21.3 × 22.6 × 12.3 mm
- Open-source design, made in EU
- Complimentary technical support

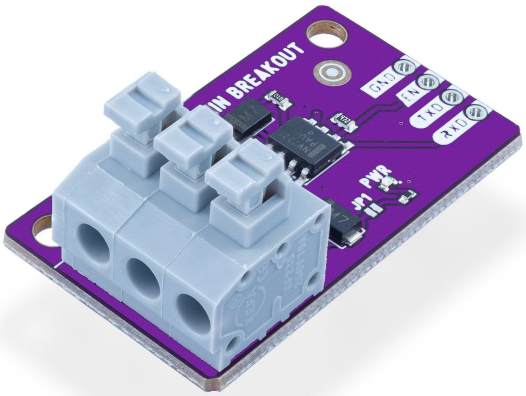
SPECIFICATIONS

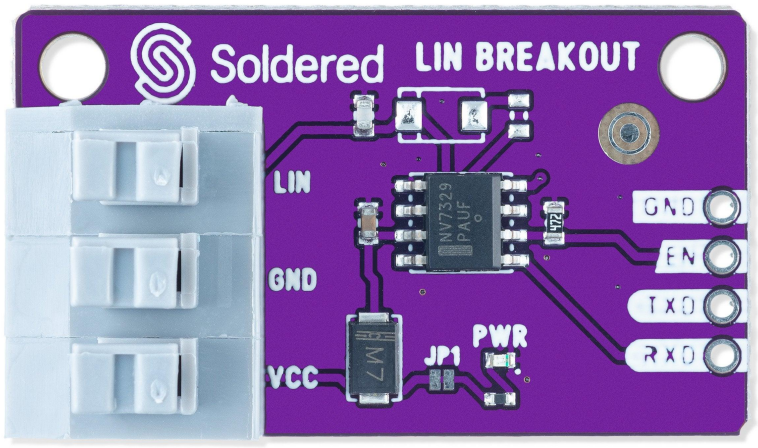
INTERFACE	Uart
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	NCV7329
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	18
PROTECTION FEATURES	Undervoltage, Thermal Shutdown, Transient

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/LIN-Transceiver-NCV7329-MASTER-breakout-hardware-design
Full Documentation	https://docs.soldered.com/ncv7329/overview/
Hardware Details	https://docs.soldered.com/ncv7329/hardware/
Pinout	https://cms.soldered.com/products/333026/media/333026_pinout-png_cbc45c.svg

GALLERY


LIN BREAKOUT
GND
EN
TXD
RXD
JP1
PWR


Soldered
LIN BREAKOUT
LIN
GND
VCC
PWR
JP1
GND
EN
TXD
RXD


Soldered
MASTER
SLAVE