



Dual LIN 2.2A/SAE J2602 Transceiver

TJA1022

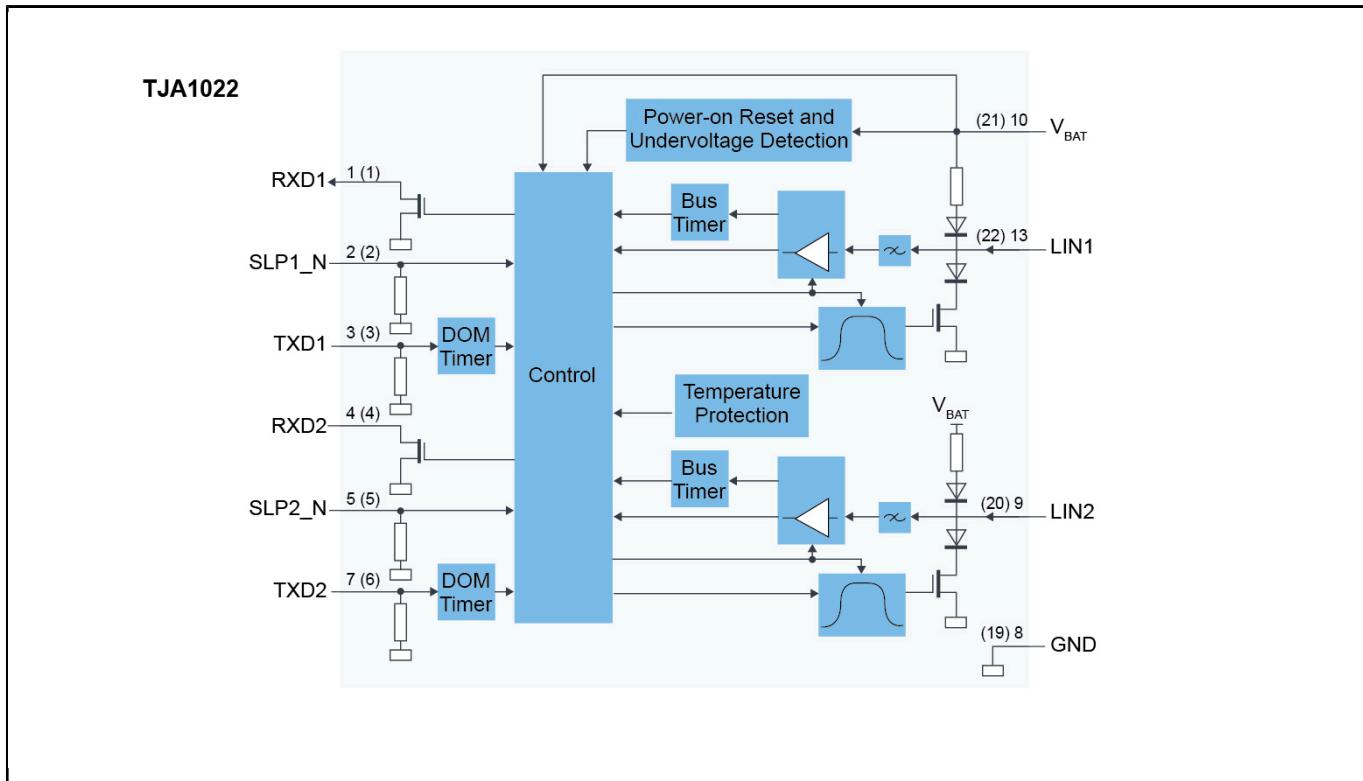
Last Updated: Dec 24, 2025

The TJA1022 is a dual LIN transceiver that provides the interface between a Local Interconnect Network (LIN) leader/follower protocol controller and the physical bus in a LIN network. It is primarily intended for in-vehicle subnetworks using baud rates up to 20 kBd and is compliant with LIN 2.0, LIN 2.1, LIN 2.2, LIN 2.2A and SAE J2602. The TJA1022 is pin compatible with the TJA1020, TJA1021 and TJA1027. The TJA1022 and TJA1027 are also software compatible.

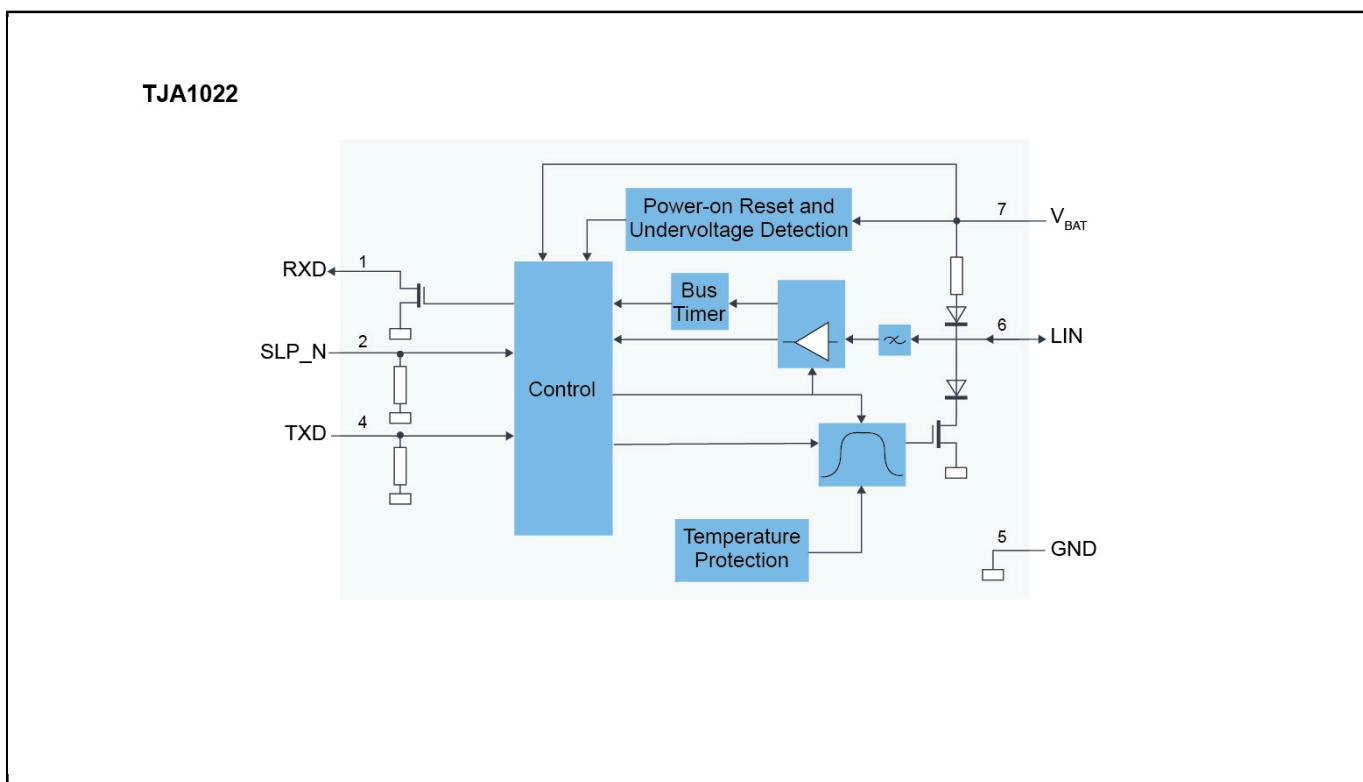
The transmit data streams generated by the protocol controller are converted by the TJA1022 into optimized bus signals shaped to minimize ElectroMagnetic Emissions (EME). The LIN bus output pins are pulled HIGH via internal termination resistors. For a leader application, an external resistor in series with a diode should be connected between pin VBAT and each of the LIN pins. The receivers detect receive data streams on the LIN bus input pins and transfer them via pins RXD1 and RXD2 to the microcontroller.

Power consumption is very low when both transceivers are in Sleep mode. However, the TJA1022 can still be woken up via pins LIN1/LIN2 and SLP1_N/SLP2_N.

TJA1022 Block Diagram Block Diagram



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[View additional information for Dual LIN 2.2A/SAE J2602 Transceiver.](#)

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