

Product Overview

AMIS-42700: Dual CAN Transceiver, High Speed

For complete documentation, see the data sheet.

Controller area network (CAN) is a serial communication protocol, which supports distributed real-time control and multiplexing with high safety level. Typical applications of CAN-based networks can be found in automotive and industrial environments. The AMIS-42700 Dual CAN transceiver is the interface between up to two physical bus lines and the protocol controller and will be used for serial data interchange between different electronic units at more than one bus line. It can be used for both 12 V and 24 V systems.

Features

- Fully compatible with the ISO 118982 standard
- Certified Authentication on CAN Transceiver Conformance (d1.1)
- High speed (up to 1 Mbps in function of the bus topology)
- Ideally suited for 12 V and 24 V industrial and automotive applications
- Low EME commonmode choke is no longer required
- Differential receiver with wide commonmode range (± 35 V) for high EMS
- No disturbance of the bus lines with an unpowered node
- Dominant timeout function
- Thermal protection
- Bus pins protected against transients in an automotive environment

For more features, see the data sheet

Applications

- In-Vehicle Networking
- Industrial Networking

End Products

- Automobiles
- Industrial Equipment

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Data Transmission Standard	Data Rate	Number of Drivers	Number of Receivers	V _{CC} Min (V)	V _{CC} Max (V)	t _{PLH} Max (μs)	I _O Max (μA)	I _{IH} Max (mA)	Package Type
AMIS42700WCGA4RH		AEC Qualified PPAP Capable Pb-free Halide free	Active	CAN	1 Mb/s	2	2	4.75	5.25				SOIC-20W

For more information please contact your local sales support at www.onsemi.com.

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