


IC TXRX LIN BUS REG/LIN SBC 8DFN



Images are for reference only

[Inquiry](#)

Manufacturer:	Microchip Technology, Inc
Package/Case:	VDFN-8
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The Microchip ATA663211 is a fully integrated LIN transceiver designed in compliance with the LIN specification 2.0, 2.1, 2.2, 2.2A and SAEJ2602-2. It interfaces the LIN protocol handler and the physical layer. The device is designed to handle the low-speed data communication in vehicles, for example, in convenience electronics. Improved slope control at the LIN bus ensures data communication up to 20Kbaud. Sleep mode guarantees minimal current consumption even in the case of a floating bus line or a short circuit on the LIN bus to GND. The device is available in SO8 package and DFN8 package with wettable flanks for automatic optical inspection.

Key Features

Supply voltage up to 40V

Operating voltage $V_S = 5V$ to 28V

Very low supply current

Sleep mode: typically 9 μ A

Fail-safe mode: typically 80 μ A

Normal mode: typically 250 μ A

Fully compatible with 3.3V and 5V devices

LIN physical layer according to LIN 2.0, 2.1, 2.2, 2.2A and SAEJ2602-2

Wake-up capability via LIN bus (100 μ s dominant)

External wake-up via WKin pin (100 μ s low level)

INH output to control an external voltage regulator or to switch the master pull-up

Wake-up source recognition

TXD time-out timer

Bus pin is over-temperature and short-circuit protected vs. GND and battery

Advanced EMC and ESD performance

Fulfills the OEM "Hardware Requirements for LIN in Automotive Applications Rev.1.3"

Interference and damage protection according to ISO7637

Qualified according to AEC-Q100

Package: SO8, DFN8 with wettable flanks (Moisture Sensitivity Level 1)

Recommended For You

ATA6626C-PGQW

Microchip Technology, Inc
QFN

ATA6662C-TAQY

Microchip Technology, Inc
SOP8

ATA6662C-GAQW

Microchip Technology, Inc
SOP8

ATA663454-GDQW

Microchip Technology, Inc
DFN16

ATA663231-GBQW

Microchip Technology, Inc
DFN8

ATA6664-GAQW

Microchip Technology, Inc
SOP8

ATA6662-TAQY

Microchip Technology, Inc
SOP-8

ATA663254-GAQW

Microchip Technology, Inc
SOIC-8

ATA663254-GBQW

Microchip Technology, Inc
VDFN-8

ATA663211-GAQW

Microchip Technology, Inc

SOP8

ATA6624C-PGQW-1

Microchip Technology, Inc

VQFN20

ATA6570-GNQW1

Microchip Technology, Inc

SOP14

ATA6630-GLQW

Microchip Technology, Inc

QFN

ATA6625C-GAQW

Microchip Technology, Inc

SOP8

ATA6626-PGQW

Microchip Technology, Inc

QFN