

Low Speed/Full Speed/High Speed USB 2.0 High Speed Signal Conditioner USB 2.0 3.3V T/R Automotive 12-Pin X2QFN

Manufacturer:	Texas Instruments, Inc	TUSB211QRWBRQ1 Image
Package/Case:	X2QFN-12	Images are for reference only
Product Type:	Interface ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The TUSB211-Q1 is a USB High-Speed (HS) signal conditioner, designed to compensate for ISI signal loss in a transmission channel.

The device has a patent-pending design which is agnostic to USB Low Speed (LS) and Full Speed (FS) signals. LS and FS signal characteristics are unaffected by the TUSB211-Q1. HS signals are compensated.

Programmable signal gain permits fine tuning device performance to optimize High Speed signals at the connector. This helps to pass USB High Speed electrical compliance tests.

The footprint of TUSB211-Q1 does not break the continuity of the DP/DM signal path. This permits risk free system design of a complete USB channel. In addition, TUSB211-Q1 is compatible with the USB On-The-Go (OTG) and Battery Charging (BC) protocols

Key Features

AEC-Q100 Qualified for Automotive Applications

Device HBM Classification Level: ± 3000 V

Device CDM Classification Level: ± 1000 V

Compatible with USB 2.0, OTG 2.0 and BC 1.2

Support for LS, FS, HS signaling

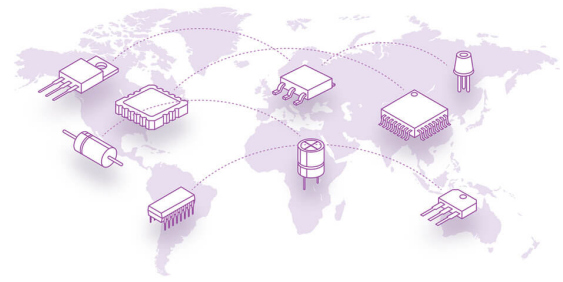
Active Power Consumption of 55 mW (Typical) with 3.3-V Single Supply

Selectable Signal Gain Via External Pulldown Resistor

Does Not Break DP, DM Trace

Scalable Solution – Daisy Chain Device for High Loss Applications

Compact 1.6 mm x 1.6 mm QFN Package



Recommended For You

TUSB2077APTR

Texas Instruments, Inc

LQFP48

TUSB1002RGER

Texas Instruments, Inc

QFN

TUSB1105RTZR

Texas Instruments, Inc

WQFN-16

TUSB4041IPAPRQ1

Texas Instruments, Inc

HTQFP-64

TUSB1210BRHBR

Texas Instruments, Inc

VQFN32

TUSB212QRWBRQ1

Texas Instruments, Inc

X2QFN12

TUSB3191DRFRQ1

Texas Instruments, Inc

WSO8

TUSB1211A1ZRQ

Texas Instruments, Inc

BGA

TUSB4020BIPHP

Texas Instruments, Inc

TQFP48

TUSB1105RGIR

Texas Instruments, Inc

VQFN16

TUSB321RWBR

Texas Instruments, Inc

X2QFN12

TUSB8020BPHP

Texas Instruments, Inc

TQFP48

TUSB1002AIRGET

Texas Instruments, Inc

VQFN-24

TUSB3210PM

Texas Instruments, Inc

QFP64

TUSB214IRWBT

Texas Instruments, Inc

X2QFN-12