

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

Manufacturer:	Texas Instruments, Inc	TUSB212QRWBRQ1 Image
Package/Case:	X2QFN12	Images are for reference only
Product Type:	Interface ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The TUSB212-Q1 is a USB High-Speed (HS) signal conditioner, designed to compensate for ISI signal loss in a transmission channel. TUSB212-Q1 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 TUSB212-Q1 while HS signals are compensated. Programmable signal AC boost and DC boost permits fine tuning device performance to optimize High Speed signals at the connector. This helps to pass USB High Speed electrical compliance tests. In addition, TUSB212-Q1 is compatible with the USB On-The-Go (OTG) and Battery Charging (BC) protocols.

Key Features

Qualified for Automotive Applications:
Device Temperature Grade 2: -40°C to 105°C Ambient Operating Temperature

Device HBM Classification Level H1C

Device CDM Classification Level C3

Compatible with USB 2.0, OTG 2.0 and BC 1.2

Pin strap or I²C configurable

Support for LS, FS, HS signaling

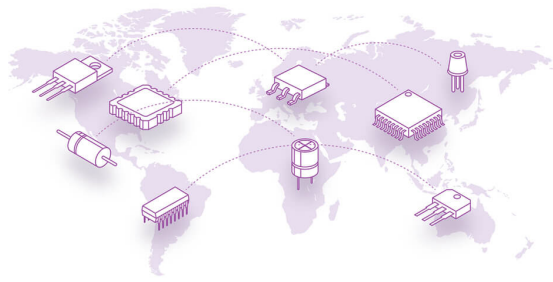
Ultra-low USB Disconnect and Shutdown Power Consumption

Selectable Signal Gain Via Daisy Chain Device for High Loss Applications

D1P/M and D2P/M Interchangeable and Host/Device Agnostic

Supports up to 5m pre-channel or 2m post-channel Cable Length
Four Selectable AC Boost Settings Via External Pulldown Resistor

DC Boost Along With AC Boost for Best Signal Integrity



Recommended For You

TUSB2077APTR

Texas Instruments, Inc

LQFP48

TUSB1002RGER

Texas Instruments, Inc

QFN

TUSB1105RTZR

Texas Instruments, Inc

WQFN-16

TUSB211QRWBRQ1

Texas Instruments, Inc

X2QFN-12

TUSB4041IPAPRQ1

Texas Instruments, Inc

HTQFP-64

TUSB1210BRHBR

Texas Instruments, Inc

VQFN32

TUSB319IDRFRQ1

Texas Instruments, Inc

WSON8

TUSB1211A1ZRQ

Texas Instruments, Inc

BGA

TUSB4020BIPHP

Texas Instruments, Inc

TQFP48

TUSB1105RGTR

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