


Full Speed General Purpose Device Controller USB 2.0 3.3V Tray 64-Pin LQFP

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	QFP64
Product Type:	Interface ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The TUSB321 device enables USB Type-C ports with the configuration channel (CC) logic needed for Type-C ecosystems. The TUSB321 device uses the CC pins to determine port attach and detach, cable orientation, role detection, and port control for Type-C current mode. The TUSB321 device can be configured as a downstream facing port (DFP), upstream facing port (UFP) or a dual role port (DRP) making it ideal for any application.

The TUSB321 device when configured as a DRP alternates configuration as a DFP or UFP according to the Type-C Specifications. The CC logic block monitors the CC1 and CC2 pins for pullup or pulldown resistances to determine when a USB port has been attached, the orientation of the cable, and the role detected. The CC logic detects the Type-C current mode as default, medium, or high depending on the role detected. VBUS detection is implemented to determine a successful attach in UFP and DRP modes.

The device operates over a wide supply range and has low-power consumption.

Key Features

Multiproduct support with one code and one chip

Supports 12-mbits/s USB data rate (full speed)

Supports USB suspend, resume and remote wake-up operation

256 x 8 RAM for Internal data

8K x 8 RAM Code space available for downloadable firmware from host or I²C port

8K x 8 RAM for Development

Buffer space for USB packet transactions

Master I²C controller for external slave device access

Watchdog timer

Supports a total of three input and three output (interrupt, bulk) endpoints

Power-down mode

Green product and no Sb/Br

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

TUSB210BRHBR

Texas Instruments, Inc
VQFN32

TUSB212QRWBRQ1

Texas Instruments, Inc
X2QFN12

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

TUSB214IRWBT

Texas Instruments, Inc
X2QFN-12