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# Solution For Usb Pd Type C

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### Solution For Usb Pd Type

#### **GRL Introduces 2nd Generation TMUSB Power Delivery and ...**

validate their USB PD products and promote device interoperability” “We are thrilled to release our new all-in-one 2-port test solution that supports the USB PD 30 specification and offers complete test coverage for USB Type-C designs,” said Mike Engbretson, GRL Chief Technology Engineer

#### **USB PD Power Negotiations - TI.com**

USB PD Power Negotiations ABSTRACT This document describes the Power Delivery (PD) contract negotiation in USB Type-C connections per the USB-IF PD specification, and its implementation using Texas Instruments TPS65982 USB Type-C and USB PD controller USB PD is required in USB Type-C systems for power levels above 15 W (5 V at 3 A)

#### **January 2020 New Product Announcement**

efficient 18W solution to USB PD 30 and QC 4/4+ The AP43771 is a USB Type-C® Power Delivery PD 30 PPS decoder dedicated to power source applications with legacy capability It is compliant with USB Type-C specification Rev 12 and USB power delivery (PD) specification Rev 30 V 11 (USB PD 30 PPS Silicon Compliance

#### **USB Type-C™ and USB PD - STMicroelectronics**

ST Chipset: A flexible offer in the USB Type-C PD ecosystem Scalable offer for USB-PD controller and USB Type-C interface: from STM32 general purpose MCU to hard-coded solution to fit different use cases and power ratings Large product portfolio for protection ...

#### **FUSB307B - USB Type-C Port Controller with USB-PD**

USB Type-C Port Controller with USB-PD Description The FUSB307B targets system designers looking to implement up to four USB Type-C port controllers (TCPC) with USB-PD capabilities This solution provides integrated Type-C Rev 13 detection circuitry enabling manual attach/detach detection Time critical Power

## USB Power Delivery and Type-C - STMicroelectronics

Two pins on the USB Type-C receptacle, CC1 and CC2, are used in the discovery, configuration and management of connections across USB type-C cable High Speed Data Path (RX for USB 3.1, or reconfigured in Alternate Mode) High Speed Data Path (TX for USB ...

### CYUSB4347/CYUSB4357, HX3PD USB 3.1 Gen 2 Type-C Hub ...

HX3PD supports two USB PD ports, consisting of USB Type-C baseband transceivers and physical-layer logic The USB-PD PHY consists of a transmitter and receiver that communicate Biphase Mark Coding (BMC) and 4b/5b encoded data over the CC channel based on the PD 3.0 standard In addition, the USB-PD block includes all termination resistors (RP

### A primer on USB Type-C and Power Delivery applications ...

A primer on USB Type-C and power delivery applications and requirements 6 November 2016 Type-C DFP USB 2.0 without PD Another simple and common application is a DFP USB 2.0 without PD, shown in Figure 4 One example is a 5V AC/DC adapter (commonly referred to as a “wall-wart”) Figure 4 represents the blocks necessary for

### Universal Serial Bus Type-C (USB Type-C)

PD USB Power Delivery Tests - Used in the assertion table to indicate an assertion is verified by the USB Power Delivery Test Suite PUT Port Under Test - The USB Type-C Connector port that is tested by the tests defined in this document PUT\_C PUT that is bound to a USB Type ...

### USB Technology and Type-C Overview - TI Training

USB Technology and Type-C Overview 1 USB-PD Over USB Type-C 8 Precedence Mode of Operation Nominal Voltage Maximum USB Type-C and PD E2E Total Solution 16 S USB Signal Conditioner SS Mux HS Mux CC Analog PD Manager FETs ESD ESD ESD AFE PHY N CC U D-D + TX 1 / RX 1 TX 2 / RX 2 DP Signal Conditioner S USB Signal Conditioner SS Mux HS Mux CC

### Solution Examples: EZ-PD™ CCG2

EZ-PD™ CCG2 Solution Examples 3 Webpages: Type-C, CCG2 and Reference Design Datasheet: CCG2 Datasheet App Note: Design USB 3.1 Type-C Cables Using CCG2 USB Type-C to VGA1 Dongle Solution USB Type-C VGA Dongle A notebook PC accessory that converts a USB Type-C port to an VGA output to connect a monitor

### January 2020 New Product Announcement

27W~33W solution to USB PD 3.0 and QC 4.0+ The AP43771 is a USB Type-C® Power Delivery PD 3.0 PPS decoder dedicated to power source applications with legacy capability It is compliant with USB Type-C specification Rev 1.2 and USB power delivery (PD) specification Rev 3.0 V 1.1 (USB **90W TYPE-C PD3.0 / QC4.0 Power Adapter Solution with ...**

BOM for 90 W Type C Interface PD3.0 Power adapter solution which supports PD output (5 V / 3 A, 9 V / 3 A, 12 V / 3 A, 15 V / 3 A, 20 V / 4.5 A) This design combined with Weltrend WT6615F PD3.0 protocol controller to provide PD3.0 and QC3.0 functions This design also proposes a ...

### USB Redriver and Type-C Solutions - TI Training

PD controller USB 2.0 Configuration switch/mux Device to Device Power VBUS GND CC Benefits: • USB Type-C switch can reduce pin out and complexity in USB controller • Same switch required in both USB Type-C mux solution selection guide 24 24 HD3SS3212 HD3SS3202

### RD1210 - Lattice USB Type-C Solution Design Document

Lattice USB Type-C Solution Design Document For implementation details, refer to Figure 8-39 and Figure 8-41 of the USB PD specification PE Sink In a Dual Role Port, if the negotiated role by the Cable Detection module is Sink, then this module is active, other-wise, it is disabled Functions:

**Solution Examples: EZ-PD™ CCG2**

USB Type-C DP1 Cable A notebook PC accessory that converts a USB Type-C port to a DisplayPort1 output to connect a monitor Solution Example USB Type-C-to-DP1 Dongle CC6 GND V CONN 5 t 1 le e-lug Type-C Cable Data Lines (DisplayPort1) 10 4 CCG2 CYPD2119-24LQXIT 2 USB Hi-Speed USB-Billboard CY7C65210-24LTXI V BUS 4 4 2 I2C 12 2 GPIO Block Diagram

**RD1209 - Lattice USB Type-C Solution**

5 Lattice USB Type-C Solution Figure 3 Clamp Voltage Based Device Detection for a Dead Battery/Unpowered Device This model is an illustration of how the design handles the use case when the Lattice device is unable to turn ON

**NXP Introduces the Industry's Best-in -Class, End -to -End ...**

NXP Introduces the Industry's Best-in -Class, End -to -End USB Type -C Solution for Fast Charging Company's total solution features easy integration of AC -DC converter, protocol controller, USB PD Phy and direct charger for the industry's first fully compliant Type-C solution

**Click MAX25410 Automotive USB Power Delivery Port Protector**

The MAX25410 is an automotive USB Power Delivery (USB-PD)-based Type-C protection solution for automot-tive radio, navigation, connectivity, and USB hub/multi-media module applications The device provides a one-chip automotive USB-PD protection solution for the CC1, CC2, D+, and D-signals on a USB Type-C connector MAX25410 also provides a V CONN

**USB-C Solutions Brochure (English)**

The USB Type-C connector (also called USB-C) has become commonplace on electronic devices we use every day, including laptops, tablets, smartphones and even desktop computers