
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 31, 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 30 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 20 without PD Another simple and common application is a DFP USB 20 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 31 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 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 90W TYPE-C PD3.0 / QC4.0 Power Adapter Solution with ...

BOM for 90 W Type C Interface PD30 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 / 45 A) This design combined with Weltrend WT6615F PD30 protocol controller to provide PD30 and QC30 functions This design also proposes a ...

USB Redriver and Type-C Solutions - TI Training

PD controller USB 20 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