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What the Tech? USB-C and Power Delivery Explained / Blog ...

Solutions for USB PD & Type -C

USB power delivery - Infineon

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Technologies

USB Power Delivery and Type-C

GRL Introduces 2nd Generation TMUSB
Power Delivery and USB ...

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USB Type-C and Power Delivery

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Automotive USB Type-C and Power Delivery

USB PD Type-C Controllers | Richtek Technology

X-CUBE-USB-PD - USB Type-C and Power Delivery software ...

USB Type-C: True Plug'n Play | Data and Power Delivery | NXP

USB Type C | Power Delivery Controllers

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| Microchip ...

USB Type-C™ Solutions | Mouser

How to Test USB Power Delivery (PD)
Over Type-C™ | Keysight

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

Introduction to Richtek USB Type-C
Power Delivery Solutions

USB Type-C and Power Delivery | Getting

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started | USB | TI.com

~~What the Tech? USB-C and Power Delivery Explained / Blog ...~~

USB Type-C™ Solutions Together, ON Semiconductor and TE Connectivity deliver a full portfolio of solutions to quickly enable your next USB Type-C design. To kick start your design, they

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have provided a detailed diagram for a typical DC/DC USB Type-C application.

~~Solutions for USB PD & Type C~~

USB PD Safety Total Solution Cost Key Considerations of USB PD •Application Solution •HW/FW Support •Miniature Design •Design tool •Mfg. test •Certification/Logo •After service • Poor

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quality of adaptor or devices • Aging and poor quality problem of cable, plug, receptacle & Buck Cap • Cable voltage drop caused by

~~USB power delivery~~ Infineon Technologies

SANTA CLARA, Calif., September 18, 2017 - Granite River Labs (GRL), a

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global leader in engineering services and test solutions for connectivity, today announced release of their second generation USB Power Delivery (USB PD) and USB Type-C test solution, GRL-USB-PD-C2 (GRL-C2).

~~USB Power Delivery and Type C~~

We will start with the most basic Type-C

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applications and work our way up to full-featured Type-C and PD applications. First, let us review the evolution of USB data, starting with USB 1.0 through USB 3.1 Gen 2. Table 1 shows the maximum transfer rate for each of the USB data transfer related specifications.

~~GRL Introduces 2nd Generation TMUSB~~

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~~Power Delivery and USB ...~~

The PAG1 is a complete AC-DC power solution with an integrated USB Power Delivery (PD) controller that enables OEMs to build reliable, efficient, and cost-effective power adapters for the growing USB...

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USB Type-C Power Options • All solutions required to support the Default USB Power appropriate to the product as defined by USB 2.0 and USB 3.1 – USB Type-C Current @ 1.5A and 3.0A – preferred alternative to using USB BC 1.2 for mobile devices Config. up to 20V

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USB Power Delivery (PD) is a single-wire protocol leveraging new USB Type-C standards and cables. With USB PD, USB Type-C ports can be either a source, sink or both. USB PD negotiation lets devices create a contract to deliver the optimum power level for each application. This

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protocol expands USB to deliver up to 100 W (20 V, 5 A) of power.

~~USB Type C and Power Delivery~~

As a member of the USB Implementers Forum (USB-IF), Richtek has been developing innovative USB Type-C and PD compliant products to meet the latest standard for a wide range of

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applications, from USB-PD power adapters, Car Chargers, Type-C cable e-Mark ICs to Type-C Dual Role Power PD port controllers which use the latest USB3.0 PD protocol to support Direct Charging systems.

~~Automotive USB Type C and Power Delivery~~

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USB Type-C/PD Controller (UPD360) ...
Microchip has variety of different solutions covering the new USB-C standard, as well as solutions for the standard USB Type-A connectors. Features. Single connection for USB3.1 data transfers, up to 100W of power, and alternate modes;

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~~USB PD Type C Controllers | Richtek Technology~~

Solution USB Type -C Overview USB Power Delivery specification introduces USB Type-C receptacle, plug and cable; they provide a smaller, thinner and more robust alternative to existing USB interconnect.

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~~X CUBE USB PD USB Type C and Power Delivery software ...~~

The first is merely a USB-C port that operates using the latest USB 3.1 charging standards at up to 3 amps. The second supports a dynamic fast charging technology called Power Delivery. Power Delivery (PD) is a specification for handling higher power and allows a

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range of devices to charge quickly over a USB connection.

~~USB Type C: True Plug'n Play | Data and Power Delivery | NXP~~

USB-C and Power Delivery in Vehicles As more consumer devices (such as phones, tablets and laptops) support USB-C and Power Delivery, the need for

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USB-C and Power Delivery ports in cars is increasing. Consumers will soon be able to fast-charge all their devices (including laptops and tablets) over USB-C, as well as enable new features such as smart mirroring for rear seat

~~USB Type C | Power Delivery Controllers | Microchip ...~~

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In July 2012, the USB Promoters Group announced the finalization of the USB Power Delivery (PD) specification (USB PD rev. 1), an extension that specifies using certified PD aware USB cables with standard USB Type-A and Type-B connectors to deliver increased power (more than 7.5 W) to devices with greater power demands.

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~~USB Type-C™ Solutions | Mouser~~

USB Type-C - Plug'n Play: Efficient Data and Power Delivery. Delivering data rates up to 10 Gbit/s and up to 100W of power, USB Type-C offers a connector that's perfectly tailored for emerging product designs—offering rich interface capabilities with “Alternate Mode”

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support. It also enables fully reversible plug orientation and cable direction,...

~~How to Test USB Power Delivery (PD) Over Type C™ | Keysight~~

Check the reference design schematics for a 45W USB power delivery solution.

OptiMOS™ PD optimized for Sync Rectification. OptiMOS™ PD is an N-

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channel power MOSFET family meeting highest efficiency standards even in a compact 3x3 package, achieves a lower temperature in a 3x3 package compared to the next best alternative in 5x6. BOM cost reduction can be achieved as the parts are fully driven from 4.5V (low threshold voltage) by minimized on-state resistance, low gate, output and reverse

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

USB Type-C only solutions. Currently USB Type-C connectors are gradually being introduced in cars as well. Most car makers start with Type-C only, providing 5V VBUS up to 3A. For these

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applications, a standard USB Type-C only controller with a Buck converter can be used.

~~Introduction to Richtek USB Type-C Power Delivery Solutions~~

The USB Type-C™ is the newest USB connector ecosystem, it addresses the evolving needs of platforms and devices,

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while retaining the functional benefits of USB. X-CUBE-USB-PD is a USB-IF certified Expansion Package and consists of libraries, drivers, sources, APIs and application examples running on STM32F0 Series microcontrollers acting as USB Power Delivery controllers or USB Type-C port managers (TCPMs).

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USB Type-C power delivery creates possibilities for USB connected devices with higher, bi-directional power and power for non-USB devices with ALT mode. ... USB Type-C power delivery creates possibilities for USB connected devices with higher, bi-directional power

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and power for non-USB devices with ALT mode. Learn more about verification ...

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