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Focus: 5 Gb/s

SuperSpeed design
guidelines. PHY

Overview Back Panel ...

Host Design Example:

Mobile Type 3 PCB

Guidelines Mobile Type

3 PCB Guidelines Host

PCB • 8 layer 85Ω stack-

up 2 vias Device PCB •

2" 85Ω μstrip • 2 vias ...

• Device Design

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- Silicon Considerations

SuperSpeed USB Design Guidelines

SuperSpeed Device
Design By Example -
By John Hyde:

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USB SuperSpeed Code Examples - Cypress

A composite device may provide several functions, for example, a webcam (video device function) with a built-in microphone (audio device function). An alternative to this is a compound device , in which the host assigns

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each logical device a distinct address and all logical devices connect to a built-in hub that connects to the physical USB cable.

USB - Wikipedia

2B2A example). Figure 4. Waveguide 1B1A Example Figure 5. Strips 2B2A Example For SuperSpeed USB the transmission line structure of choice is coupled differential. There are many forms

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of this structure based on board stackup, dielectric thickness, and how ground relates to the structure. For differential trace

AN-6103 - PCB Routing Methodology for SuperSpeed USB 3.1

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TUSB73x0 Board
Design and Layout
Guidelines (Rev. E)
Feb. 11, 2016: User
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guide: TUSB7320/7340

- EVM User's Guide

(Rev. C) May 15, 2014:

Application note:

Design Summary Multi-

row Quad Flat No-lead

(MRQFN) Aug. 29,

2012: Application note:

TUSB73X0

Configuration Options:

Jun. 07, 2012

**TUSB7340 data
sheet, product
information and
support | TI.com**

The PEXUSB3S44V

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4-Port PCI Express USB 3.0 Card lets you add four, dedicated 5 Gbps USB 3.0 ports to your PCIe x4-enabled PC. This independent port architecture improves USB 3.0 performance by transferring data on four individual channels to your computer, giving you faster file transfers.

**4 Port PCIe USB 3.0
Card w/ 4 Channels -
USB 3.0 Cards**

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USB 3.0 is the third major version of the Universal Serial Bus (USB) standard for interfacing computers and electronic devices. Among other improvements, USB 3.0 adds the new transfer rate referred to as SuperSpeed USB (SS) that can transfer data at up to 5 Gbit/s (625 MB/s), which is about 10 times faster than the Hi-Speed (maximum for USB 2.0

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standard).

USB 3.0 - Wikipedia

When converting an existing DRD product to USB Type-C, keep in mind that the ID pin in the Micro Type-AB connector is used to signify if the DRD shall be a host or device. As an example, a phone or tablet is a USB device when connected to a USB host using a Type-A to Micro-B cable.

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Converting Existing USB Designs to Support Type-C Connections

For example, USB 3.0 connections work well for mass-storage devices based on hard disk drives, but form a bottleneck for flash-based solid-state disks (SSD). USB 3.2-based mass-storage devices, connected at 20Gbit/s, offer more than four times the throughput

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of USB 3.0 and can keep up with the latest SSDs.

Understanding USB 3.2 and Type-C - Tech Design Forum

...

The Jetson Xavier NX can support one enhanced SuperSpeed USB port and up to three High Speed USB ports. The Jetson Xavier NX P3509 carrier board is designed and verified

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for one USB3.1 port. If you design your own carrier board, verify the compatibility between P3509 and your own board by consulting the NVIDIA team.

NVIDIA Jetson Linux Developer Guide : Platform Adaptation

...

If, for example, two High-Speed devices like a digital video camera and an

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external hard drive are in use at the same time, the last High-Speed device attached may operate at a lower data rate or ...

10 things you should know about USB 2.0 and 3.0 -

TechRepublic

SuperSpeed USB 10 Gb/sec: USB 3.1: USB 3.1 Gen 2 ... You wouldn't want a full-size USB-A socket on your sleek smartphone,

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for example - it just
wouldn't fit. ...
connecting them to a
USB-C device ...

USB Type C: Everything you need to know | IT PRO

Another bad thing
about this device is
that it is very particular
about the signal that
you are feeding into it.
For example it will
except signal from
HDMI only when it is
720p/i (30/60) or 1080i

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(30), so no 1080p or 60hz. I was unable to get this device to except input from a Snes as it will not pickup on the signal that it outputs.

Amazon.com: Blackmagic Design Intensity Shuttle for USB 3 ...

The slim compact design of StayGo means it takes up little room in your computer bag or backpack.

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Perfect for Pros and their iPads iPadOS makes working on your iPad Pro easier than ever, especially with USB-C. StayGo is the gateway to all the connections your iPad already has, truly unlocking the capabilities of iPad Pro.

StayGo USB-C Hub - Twelve South

the culmination of five generations of Microchip hub feature

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controller design and experience with proven reliability, interoperability, and device compatibility. The SuperSpeed hub feature controller operates in parallel with the USB 2.0 controller, decoupling the 5Gbps SS data transfers from bottlenecks due to the slower USB 2.0 traffic.

**USB5744 4-Port
SS/HS USB**

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Further, be aware that just because a Type-C port on a given device (or a specific Type-C cable) offers extra capabilities doesn't mean the device connected to it has the same. For example, if a ...

All Things USB 3.1 And USB Type-C: An Explainer | Tom's ...

For example, a USB

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controller card would be under Universal Serial Bus controllers. Your USB device is listed according to the name of the chipset. To determine the name of the chipset of your USB device, navigate to www.StarTech.com and look on the Technical Specifications tab for your product.

USB 3.0 to Gigabit Ethernet Adapter - USB and

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The built-in cable makes it extra portable, alongside the sleek profile that weighs just 2.72 ounces. But it does have a USB-C plug, so you will need a computer or device with USB-C too—Apple's devices are a great example. The HDMI output can handle 4K video at 30Hz or 1080p video at 60Hz.

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The 8 Best USB Hubs of 2021 - Lifewire

Take control and optimize your manufacturing, testing, and development environments.

Features 8 programmable ports. Control USB hi-speed, superspeed, and power lines. Set port current limits. Monitor voltage and current. Auto-switch between two input ports, and

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expand to multiple hubs via the expansion port. Built to withstand $\pm 15\text{kV}$ ESD strikes.

Acroname Programmable Industrial USB 3.0 Hub (8 Ports)

The GA-X58A-UD5 was designed specifically to take advantage of the raw power of the next generation Intel [®] Core [™] i7 processors and the Intel [®] X58

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Express chipset, whose new evolution in computing architecture is able to deliver an amazing performance break through from past processor generations. Replacing the Front Side Bus is the new Quick Path Interconnect, or QPI, whose 25.6 GB/sec ...

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