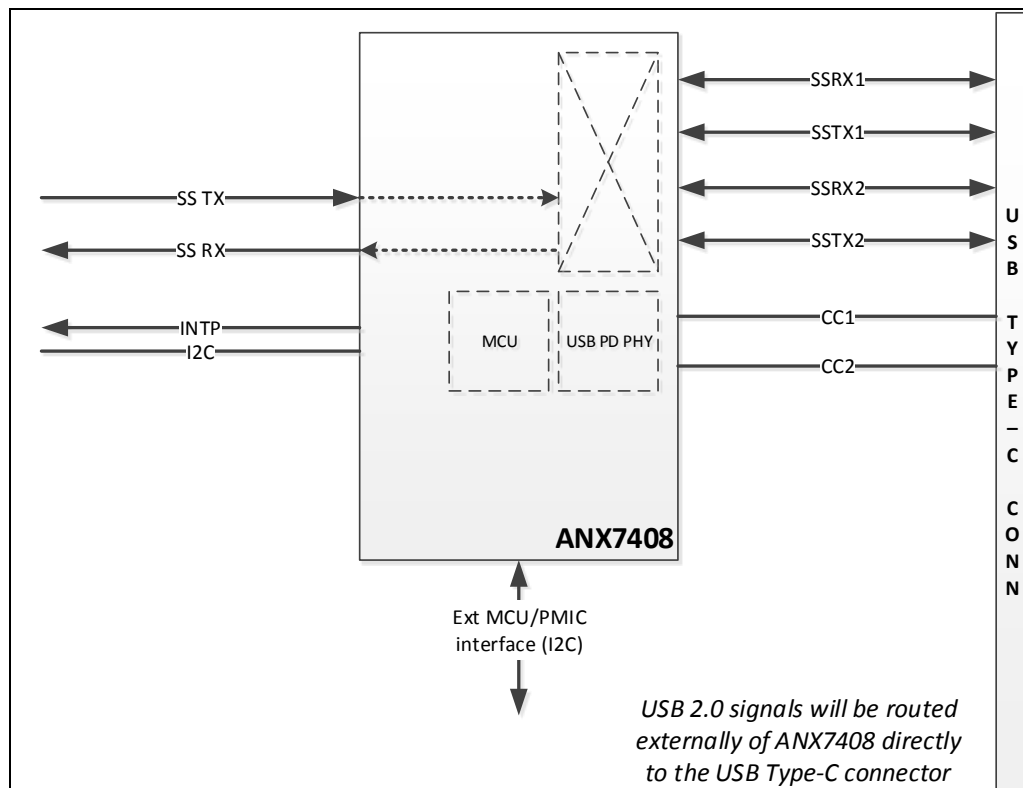


USB Type-C Crosspoint Switch

ANX7408 is an intelligent crosspoint switch that supports switching at data rates of up to 6.75Gbps. ANX7408 supports the USB 3.1 (Gen 1 – 5Gbps) high-speed interface. ANX7408 is designed as a companion IC to various CPUs and Application Processors (APs) to enable notebook PCs, tablets, and smartphones to use mobile connectors such as the reversible USB Type-C. An integrated microcontroller (MCU) is available to manage the signal switching, Channel Configuration (CC) detection, USB Power Delivery (USB-PD) charging and Vendor Defined Message (VDM) protocol, and other functions as defined in the USB Type-C v1.0 and USB Power Delivery v2.0 specifications. ANX7408 can be configured for a Downstream Facing Port (DFP), Upstream Facing Port (UFP), or Dual-Role Port (DRP) to support USB 3.1 functionality over a USB Type-C receptacle.

Features

- High-speed switching up to 6.75Gbps
- USB 3.1 signal (SSTX and SSRX) with Gen1 (5Gbps) link speed
- Embedded MCU to implement signal switching and USB-PD messaging for charging related functions
- 5V-tolerant CC/VCONN signals
- Dead battery charging support
- I2C slave mode to support external MCU/IC
- I2C master and GPIOs to control external Power Management Integrated Circuits (PMICs) or USB charger IC based on the USB-PD configuration
- 3.3V power supply (1.0V Core power generated by internal regulator)
- Supports the following
 - USB 3.1 signal switching
 - USB Power Delivery Specification v2.0 on CC wire
- Compliant with the following
 - USB Type-C Cable and Connector Specification (rev 1.0)
 - USB Power Delivery Specification v2.0 (rev 1.0)
 - USB 3.1 Gen 1 electrical specifications



Related Products

Part Number	Description
ANX7802	SlimPort Transmitter (HD, 1080p30) with HDMI input
ANX7805	SlimPort Transmitter (Full-HD, 1080p60) with RGB-24, MIPI-DSI, SPDIF, I ² S and SLIMbus inputs
ANX7812	SlimPort Transmitter (Full-HD, 1080p60) with HDMI input
ANX7814	SlimPort Transmitter (Full-HD, 1080p60) with HDMI input
ANX7816	SlimPort Transmitter (Ultra-HD, 4Kp60) with HDMI input
ANX7730	SlimPort to HDMI (Full-HD, 1080p60 and 3D) converter
ANX7732	SlimPort to VGA (WUXGA, 1920x1080p60) converter
ANX7748	SlimPort to DisplayPort (WUXGA, 1920x1080p60) active lane converter

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