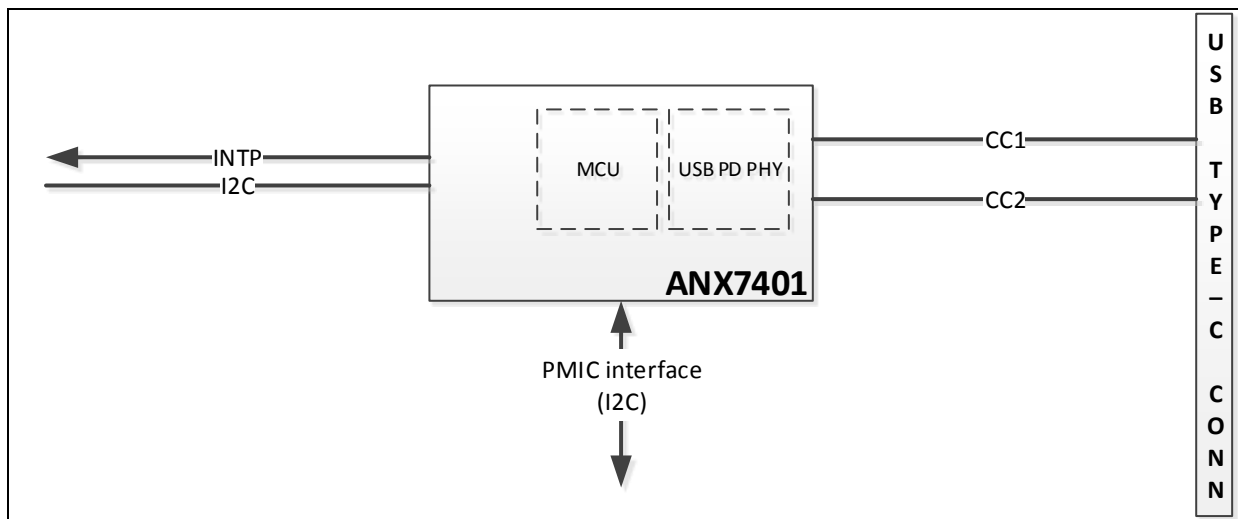


USB Power Delivery PHY with Channel Configuration Control

ANX7401 is a USB Power Delivery (USB-PD) PHY with an integrated microcontroller (MCU). The MCU enables ANX7401 to manage the signal switching, Channel Configuration (CC) detection, USB Power Delivery 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. ANX7401 is designed as a companion IC to various CPUs and Application Processors (APs) to enable notebook PCs, tablets, and smartphones to use the reversible USB Type-C receptacle as a Downstream Facing Port (DFP). Additionally, when accompanied by an external USB Billboard device IC, ANX7401 is ideal for USB Type-C dongle/dock designs.

Features

- 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 switch, 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 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)



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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