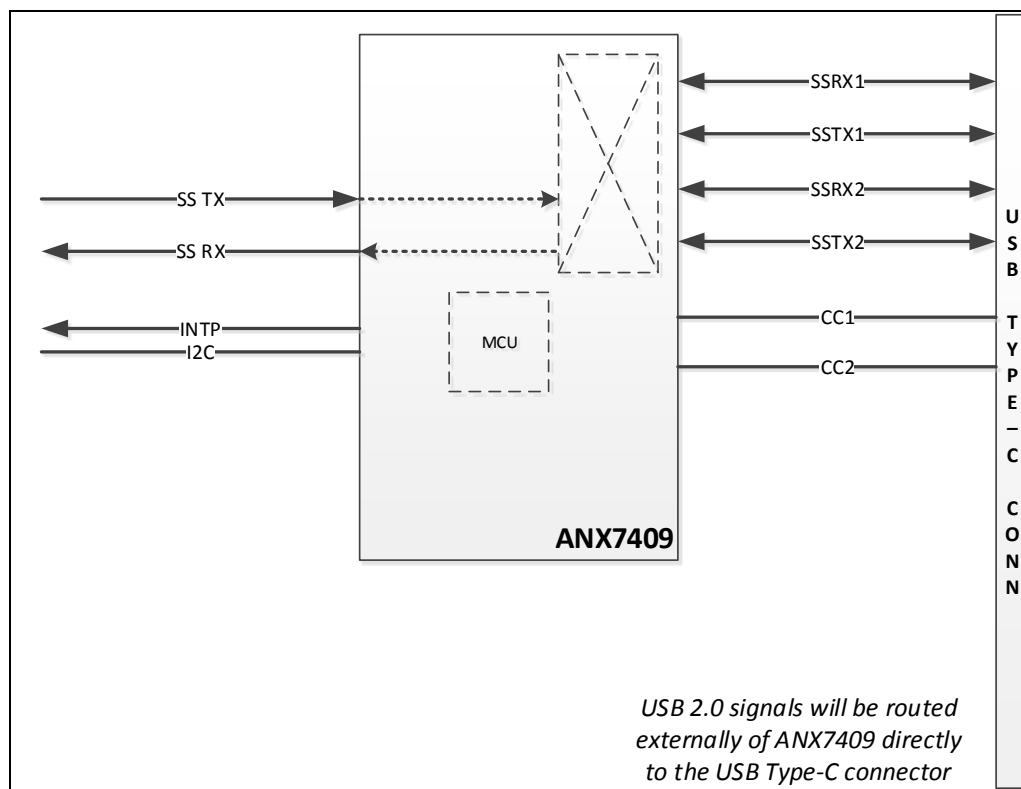


## USB Type-C Crosspoint Switch

ANX7409 is an intelligent crosspoint switch that supports switching at data rates of up to 6.75Gbps. ANX7409 supports the USB 3.1 (Gen 1 – 5Gbps) high-speed interface. ANX7409 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 cable detection, role configuration, and signal switching as defined in the USB Type-C v1.1 specification. ANX7409 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 cable detection, role configuration, and signal switching functions
- 5V-tolerant CC/VCONN signals
- Dead battery charging support
- I2C slave mode to support external MCU/IC
- 3.3V power supply (1.0V Core power generated by internal regulator)
- Compliant with the following
  - USB Type-C Cable and Connector Specification (rev 1.1)
  - USB 3.1 Gen 1 electrical specifications



## Related Products

Part Number	Description
ANX7401	USB-PD and Channel Configuration Controller
ANX7403	USB-C Channel Configuration Controller
ANX7408	USB3 Switch, USB-PD and Channel Configuration Controller
ANX7418	DP Alternate Mode (up to 2L), USB3 Switch, USB-PD and Channel Configuration Controller
ANX7428	DP Alternate Mode (up to 4L), USB3 Switch, USB-PD and Channel Configuration Controller
ANX7802	SlimPort Transmitter (HD, 1080p30) with HDMI input
ANX7805	SlimPort Transmitter (Full-HD, 1080p60) with RGB-24, MIPI-DSI, SPDIF, I <sup>2</sup> S and SLIMbus inputs
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
ANX7750	SlimPort to DisplayPort active lane converter

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