

## FSA4480

# USB Type-C™ Analog Audio Switch with Protection



## Product Overview

For complete documentation, see the data sheet.

FSA4480 is a high performance USB Type-C™ port multimedia switch which supports analog audio headsets. FSA4480 allows the sharing of a common USB Type-C™ port to pass USB2.0 signal, analog audio, sideband use wires and analog microphone signal. FSA4480 also supports high voltage on SBU port and USB port on USB Type-C™ receptacle side.

### Features

- Power Supply: VCC, 2.7 V to 5.5 V
  - USB High Speed (480Mbps) SDD21 -3dB Bandwidth: 950 MHz
  - USB High Speed RON: 3Ω Typical
  - Audio Switch Negative Rail Capability: -3V to +3V
  - Audio Switch THD+N = -110 dB; 1 VRMS, f = 20Hz-20 kHz, 32Ω Load
  - Audio RON: 1Ω Typical
  - High voltage Protection: 20V DC tolerance on connector side pins
  - Over Voltage Protection: VTH = 5V Typical
  - OMTP and CTIA pinout support
  - Supports Audio Sense Path
- For more features, see the data sheet

### Benefits

- Wide range power supply
- Data integrity is preserved due to high bandwidth
- Low RDSON for minimal insertion loss
- Accommodates ground centered audio without impact to performance
- Low THD+N to ensure audio quality is preserved
- Low RDSON to minimize audio distortion
- High voltage protection on connector side to avoid damage
- Switches are protected to avoid damage
- Supports both headset configurations
- Sense path available

### Applications

- USB-C PD Systems
- USB-C Analog Audio Solutions

### End Products

- Mobile Phones
- Tablets
- Notebook PC
- Media Players

## Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	Number of Switches	Configuration	I <sub>cc</sub> Max (μA)	r <sub>on</sub> Max (Ω)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	Package Type
FSA4480UCX	0.6392		Active	6	5	DPDT			2.7	5.5	WLCSP-25