

January 2011

# FSA801 — USB2.0 High-Speed (480Mbps), UART, and Audio Switch with Negative Signal Capability

## Features

- 3:1 Switch Handles:
  - Audio Headsets
  - UART
  - Up to Two High- and Low-Speed USB Data
- USB Charger Detection and Indication, Compliant with USB Battery Charging Specification, Rev 1.1
  - Supports Data Contact Detect (DCD)
- Negative-Swing-Capable Audio Channel
- Built-in Termination Resistors for Audio Pop Reduction
- Simple Switch Control Using Three Select Pins
- 28V Over-Voltage Tolerance on V<sub>BUS</sub>

## **Applications**

Cell Phones, MP3 Players, PDAs

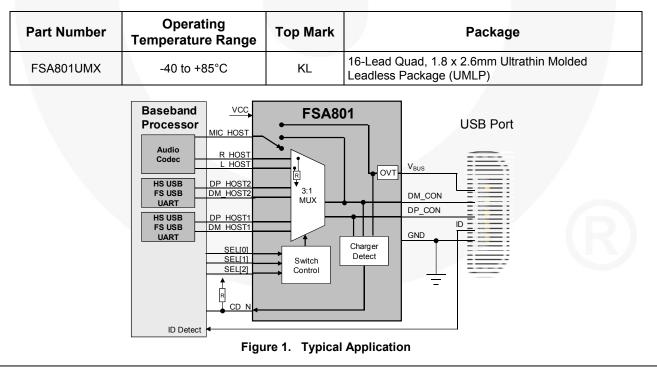
# Description

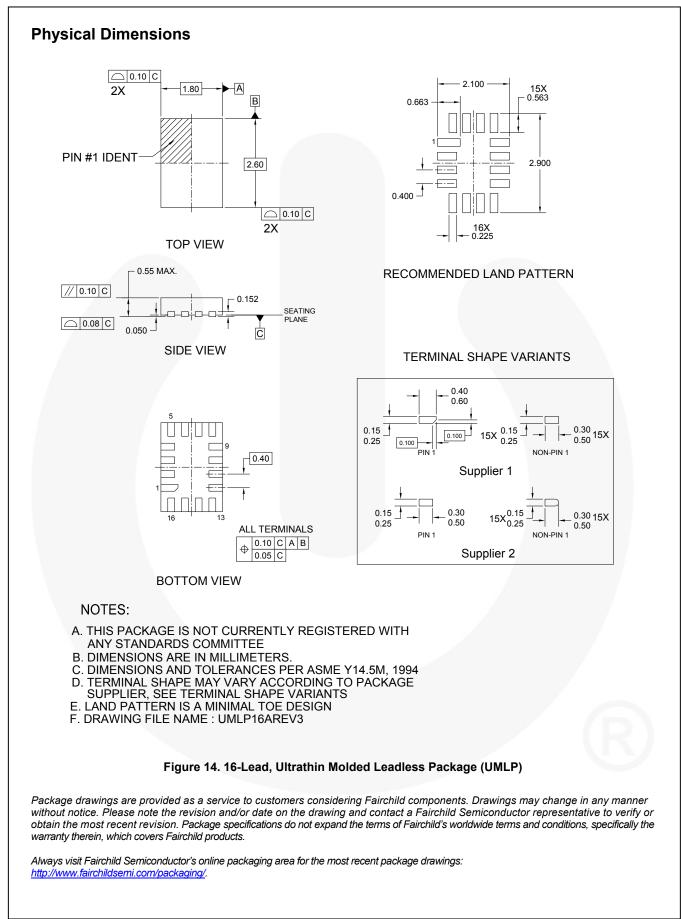
The FSA801 is a 3:1 USB accessory switch that enables USB data, stereo and mono audio, microphone, and UART data to share a common connector port. Two ports are designed for high-speed USB 2.0 signaling, while also capable of full-speed USB and UART communication. The architecture allows audio signals to swing below ground so a common USB and headphone jack can be used for personal media players and portable peripheral devices.

FSA801 detects wall chargers through a dedicated pin that provides the baseband with charger detection. The charger function is compliant with USB Battery Charging Specification, Rev 1.1, implementing Data Contact Detect (DCD) before detecting a charger. The FSA801 indicates if a Dedicated Charging Port (DCP) or a Charging Downstream Port (CDP) has been connected.

The FSA801 meets both USB Rev. 2.0 and micro-USB specifications.

# **Ordering Information**







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