

November 2009

FSA800 — USB2.0 High-Speed (480Mbps), UART, and Audio Switch with Negative Signal Capability

Features

- 3:1 Switch Handles:
 - Audio Headsets
 - UART
 - High- and Low-Speed USB Data
- USB Charger Detection and Indication
- 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_{BUS}

Applications

Cell Phones, MP3 Players, PDAs

Description

The FSA800 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. It is designed for high-speed USB 2.0 signaling. The architecture is designed to allow audio signals to swing below ground so a common USB and headphone jack can be used for personal media players and portable peripheral devices.

FSA800 detects wall chargers through a dedicated pin that provides the baseband with charger detection.

The FSA800 meets both USB Rev. 2.0 and micro-USB specifications.

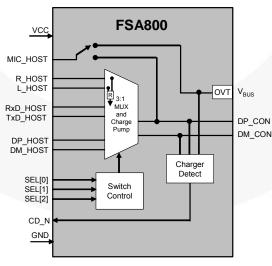
IMPORTANT NOTE:

For additional performance information, please contact <u>analogswitch@fairchildsemi.com</u>.

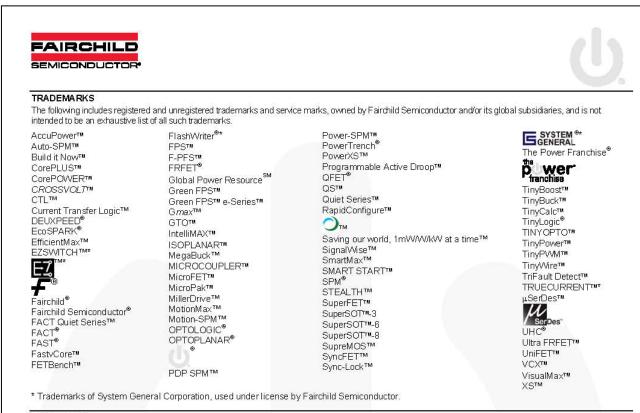
Ordering Information

Part Number	Operating Temperature Range	Top Mark	Eco Status	Package
FSA800UMX	-40 to +85°C	JN	Green	16-Lead Quad, UMLP, 1.8 x 2.6mm

Ø For Fairchild's definition of Eco Status, please visit: <u>http://www.fairchildsemi.com/company/green/rohs_green.html</u>.







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PRODUCT STATUS DEFINITIONS

Datasheet Identification	Product Status	Definition		
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.		
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.		
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make char at any time without notice to improve the design.		
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.		

Rev. 144

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