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November 2009

# FSA110 — Audio and Wired-OR USB2.0 Hi-Speed (480Mbps) Switch with Negative Signal Capability and Built-in Termination

#### Features

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- 6pF Typical Switch Off Capacitance for HS USB
- 2.5Ω Typical On Resistance for Audio Signaling
- Negative-Swing-Capable Audio Channel
- Automatic USB Detection Available
- Power-Off Protection on the D+/R, D-/L Ports
- Flow-Through Pin Out Eliminates PCB Vias
- Built-In Termination on Unselected Audio Paths Inhibits Audio Pop

#### **Applications**

- Cell Phone, PDA, Digital Camera, and Notebook
- LCD Monitor, TV, and Set-Top Box

### Description

The FSA110 is a Double-Pole, Single Throw (DPST) switch that combines a low-distortion audio path with low off capacitance for USB applications. This configuration is ideal for wired-OR configurations, enabling shared USB2.0 Hi-Speed (HS) and audio on a single connector. 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.

The FSA110 is configured for default USB transfer, which gives the user control of when the audio path is enabled. The audio path defaults to audio mute and is enabled with /OE. The FSA110 includes a power-off feature on the common port when  $V_{CC}$ =0V to guarantee signal isolation.

### **IMPORTANT NOTE:**

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

## Ordering Information

Part Number	Top Mark	Eco Status	Package Description
FSA110K8X	A110	Green	8-Lead US8, JEDEC MO-187, Variation CA, 3.0mm Wide Package
FSA110UMX	GZ	Green	10-Lead Quad, Ultrathin MLP, 1.4 x 1.8mm
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Figure 1. Analog Symbol			



PRODUCT STATUS DEFINITIONS

Product Status

**First Production** 

Full Production

Not In Production

Formative / In Design

Definition of Terms Datasheet Identification

Advance Information

No Identification Needed

Preliminary

Obsolete

at any time without notice to improve the design

The datasheet is for reference information only

any manner without notice

Definition Datasheet contains the design specifications for product development. Specifications may change in

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 Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes

Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor.