

Email <u>Analog.Switch@fairchildsemi.com</u> to request the full datasheet.

July 2012

# FSUSB63 — 3:1 High-Speed USB 2.0 Switch / Multiplexer

## **Features**

3:1 USB Switch
USB 2.0 High-Speed &
Full-Speed Compliant
126µs
6Ω Typical
6pF Typical
830MHz
2.7 to 4.4V
0 to V <sub>CC</sub>
-40°C to 85°C
<1µA
7.5µA Typical
12- Lead UMLP 1.80 x 1.80 x
0.55mm, 0.40mm pitch
KG
FSUSB63UMX

# **Applications**

- Cell Phone, Digital Camera, Notebook
- LCD Monitor, TV, and Set-Top Box
- Netbook, Mobile Internet Device (MID)

# Description

The FSUSB63 is a bi-directional, low-power, High-Speed (HS) USB 2.0 3:1 Multiplexer (MUX). It is optimized for switching among three high-speed (480Mbps) sources or any combination of high-speed and full-speed (12Mbps) USB sources, such as an application processor, to one USB 2.0 connector.

The FSUSB63 has a break-before-make time to force reenumeration by the host when switching between different HS USB 2.0 controllers and thus requires minimal software changes.

The FSUSB63 is compliant with the requirements of USB 2.0 and features extremely low on capacitance ( $C_{ON}$ ). The wide bandwidth exceeds the requirement to pass the third harmonic, resulting in signals with minimum edge and phase distortion. Superior channel-to-channel crosstalk also minimizes interference.

### **Related Resources**

- For samples and questions, please contact: Analog.Switch@fairchildsemi.com.
- FSUSB63 Demonstration Board

## **Typical Application**

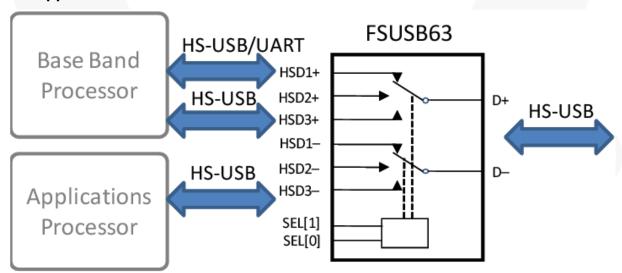
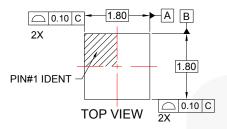
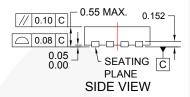
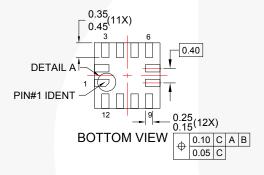


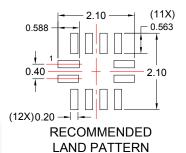
Figure 1. Analog Symbol

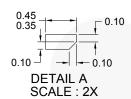
# **Physical Dimensions**











## NOTES:

- A. PACKAGE DOES NOT FULLY CONFORM TO JEDEC STANDARD.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M. 1994.
- D. LAND PATTERN RECOMMENDATION IS BASED ON FSC DESIGN ONLY.
- E. DRAWING FILENAME: MKT-UMLP12Arev4.

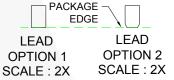


Figure 18. 12-Lead, Ultrathin Molded Leadless Package (UMLP)

## **Ordering Information**

Part Number	Top Mark	Operating Temperature Range	Package
FSUSB63UMX	KG	-40 to +85°C	12-Lead, Quad, Ultrathin Molded Leadless Package (UMLP), 1.8mm x 1.8mm x 0.55mm, 0.4mm pitch

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