



FSUSB74

4:1 High-Speed USB Multiplexer/Switch

Features

Switch Type	4:1
USB	USB 2.0 High-Speed Compliant USB 2.0 Full-Speed Compliant
R _{ON}	6.5Ω
C _{ON}	7.5pF
ESD (IEC61000-4-2)	15kV (Air) 8kV (Contact)
V _{CC}	2.7 to 4.4V
I _{CCSLP}	<1μA
I _{CCACT}	9μA
Package	16- Lead UMLP 1.80 x 2.60 x 0.55mm, 0.40mm Pitch 16-Lead MLP 3 x 3 x 0.7mm, 0.5mm Pitch
Ordering Information	FSUSB74UMX (UMLP) FSUSB74MPX (MLP)

Description

The FSUSB74 is a bi-directional, low-power, high-speed USB 2.0 4:1 MUX. It is optimized for switching from four high-speed (480Mbps) sources or any combination of high-speed and full-/low-speed USB/UART sources to one USB 2.0 connector.

Applications

- MP3 Portable Media Players
- Cellular Phones, Smart Phones
- Netbooks, Mobile Internet Devices (MID)

Related Resources

- For samples and questions, please contact: Analog.Switch@fairchildsemi.com.
- FSUSB74 Demonstration Board
- FSUSB74 Evaluation Board

Typical Application

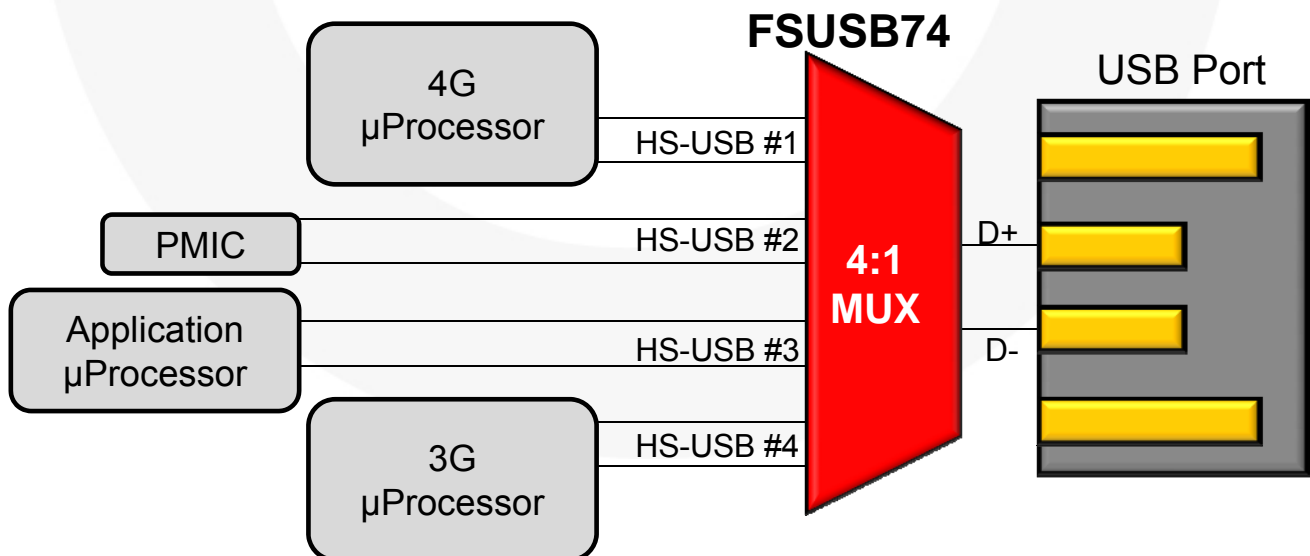
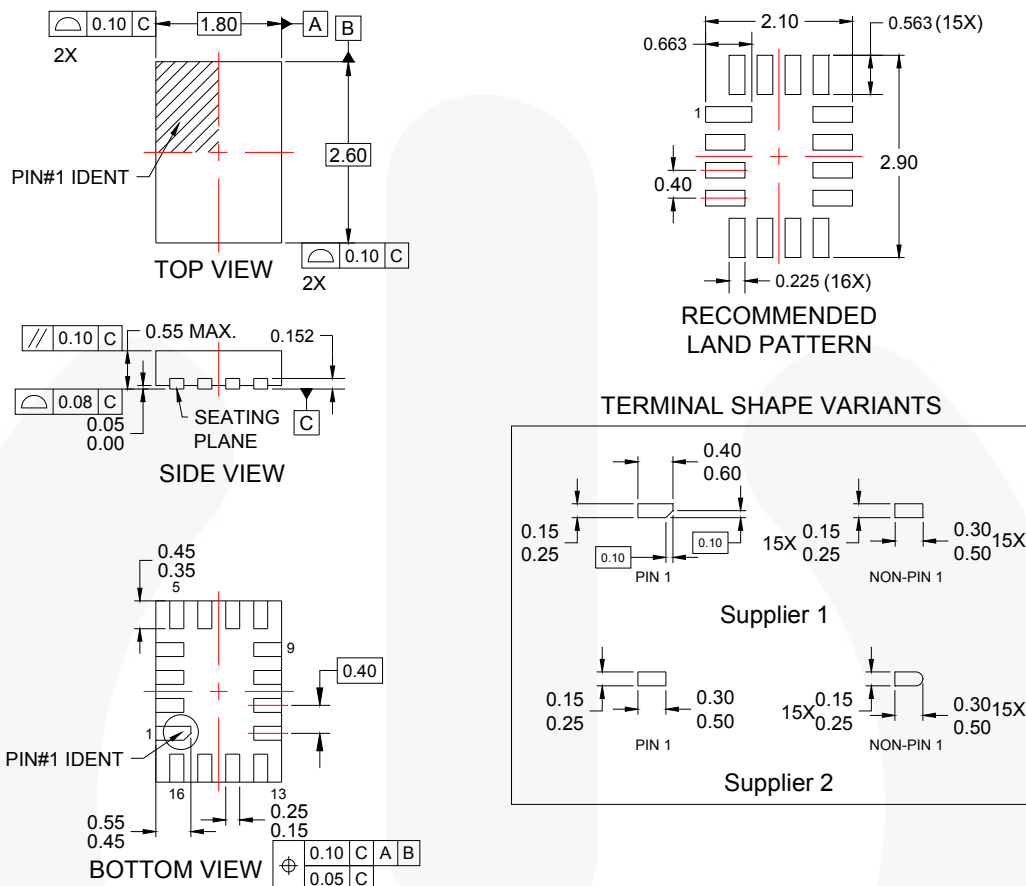


Figure 1. Mobile Phone Example

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-UMLP16Arev4.
- F. TERMINAL SHAPE MAY VARY ACCORDING TO PACKAGE SUPPLIER, SEE TERMINAL SHAPE VARIANTS.

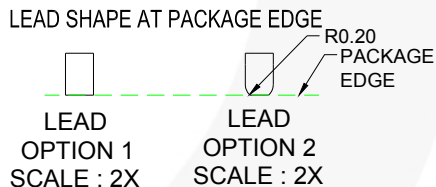


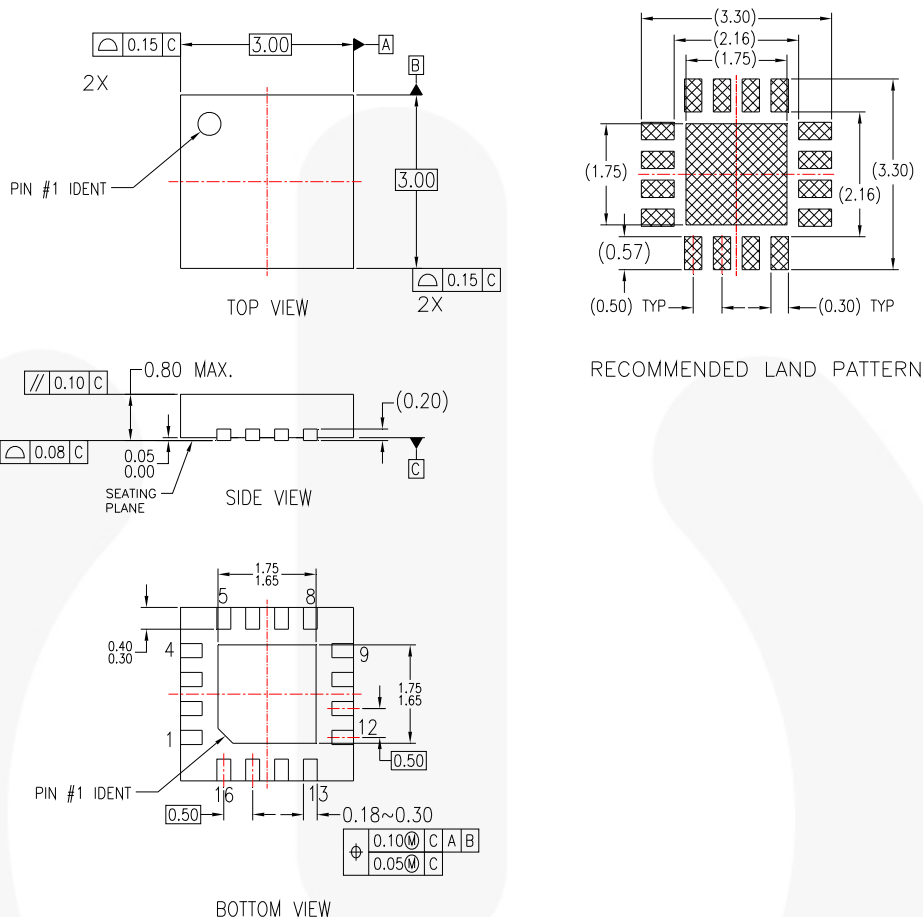
Figure 17. 16-Pin, Ultrathin Molded Leadless Package (UMLP)

Order Number	Operating Temperature Range	Package Description	Packing Method
FSUSB74UMX	-40 to 85°C	16-Terminal, Ultrathin Molded Leadless Package (UMLP)	Tape & Reel

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Physical Dimensions



NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-220, VARIATION WEED-Pending, DATED pending
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994
- D. DIMENSIONS ARE EXCLUSIVE OF BURS, MOLD FLASH, AND TIE BAR EXTRUSIONS.

MLP16BrevB

Figure 18. 16-Lead, Quad Molded Leadless Package (MLP)

Order Number	Operating Temperature Range	Package Description	Packing Method
FSUSB74MPX	-40 to 85°C	16-Lead, Quad, Molded Leadless Package (MLP), 3mm x 3mm	Tape & Reel




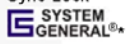
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Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	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 changes 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. I61



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