



# 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 <sub>ON</sub>	6.5Ω
C <sub>ON</sub>	7.5pF
ESD (IEC61000-4-2)	15kV (Air) 8kV (Contact)
V <sub>CC</sub>	2.7 to 4.4V
I <sub>CCSLP</sub>	<1μA
I <sub>CCACT</sub>	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](mailto:Analog.Switch@fairchildsemi.com).
- FSUSB74 Demonstration Board
- FSUSB74 Evaluation Board

### Typical Application

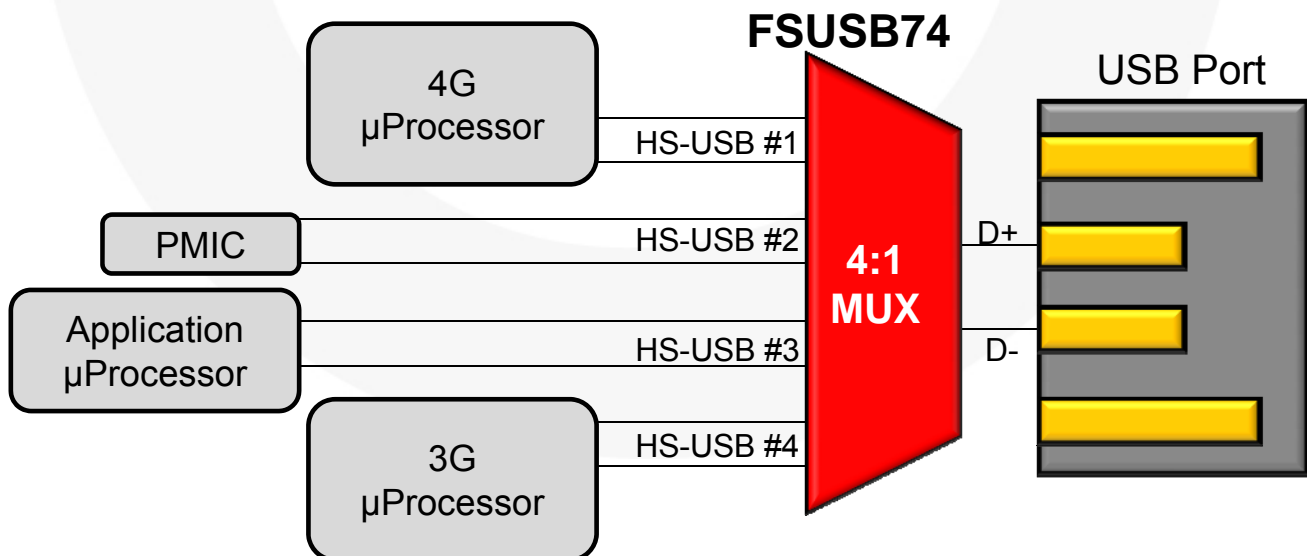
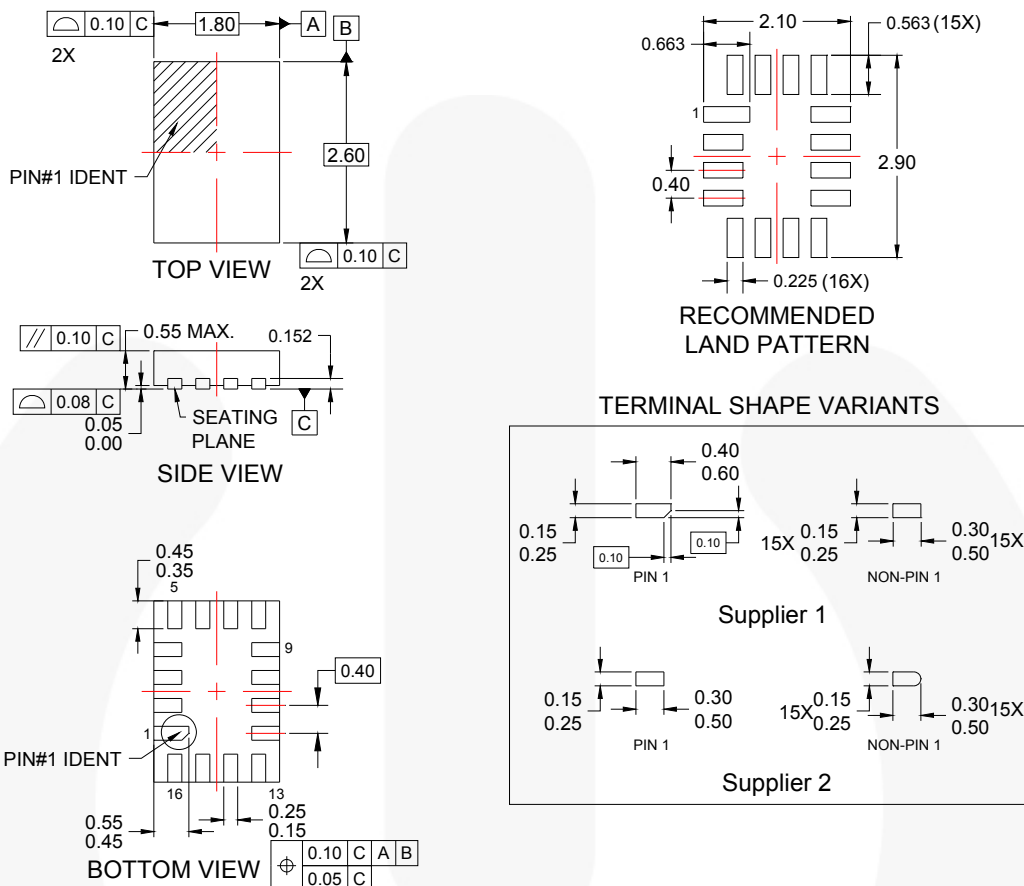


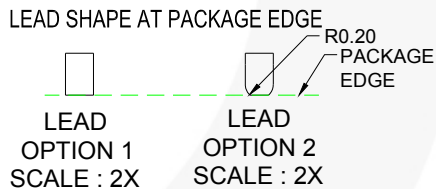
Figure 1. Mobile Phone Example

## 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.



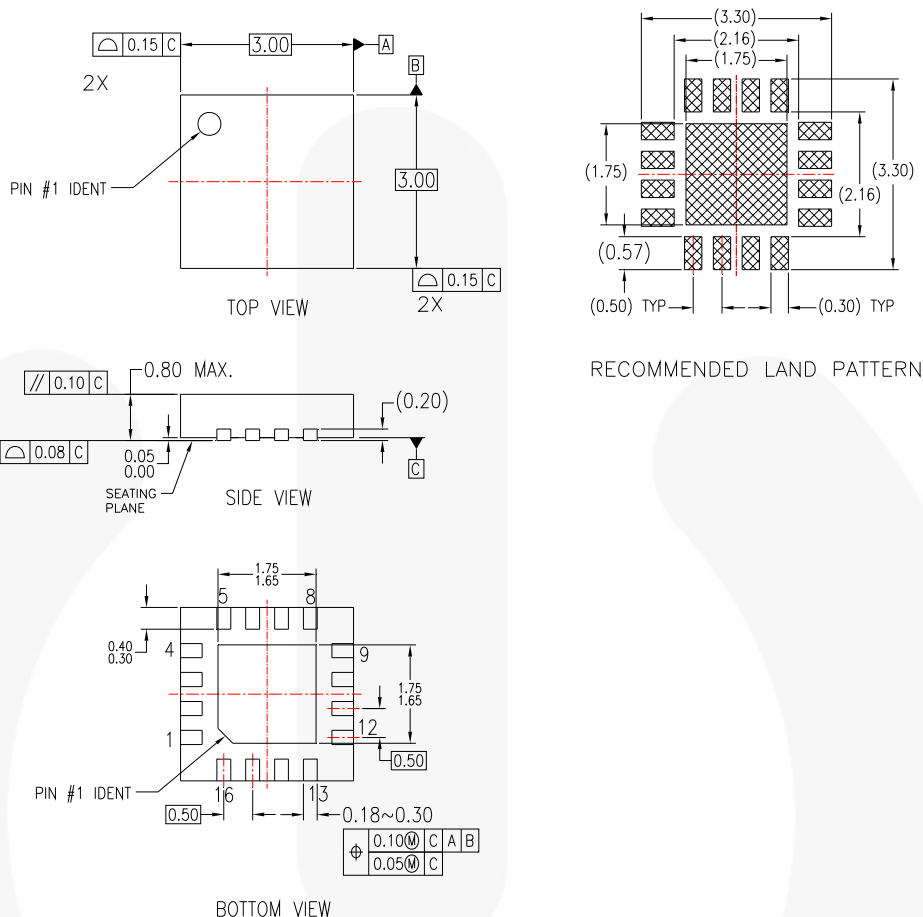
**Figure 17. 16-Pin, Ultrathin Molded Leadless Package (UMLP)**

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:**

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- 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




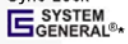
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