

# FSSD07

## 1-Bit / 4-Bit SD/SDIO and MMC Dual-Host Multiplexer

### Features

- On Resistance: 5Ω Typical,  $V_{DDC}=2.7V$
- $f_{toggle}$ : >75MHz
- Low On Capacitance: 6pF Typical
- Low Power Consumption: 2μA Maximum
- Supports Secure Digital (SD), Secure Digital I/O (SDIO), and Multimedia Card (MMC) Specifications
- Supports 1-Bit / 4-Bit Host Controllers ( $V_{DDH1/H2}=1.65V$  to 3.6V) Communicating with High-Voltage (2.7-3.6V) and Dual-Voltage Cards (1.65-1.95V, 2.7-3.6V)
  - $V_{DDC}=1.65$  to 3.6V,  $V_{DDH1/H2}=1.65$  to 3.6V
- 24-Lead MLP and UMLP Packages

### Applications

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

### IMPORTANT NOTE:

For additional performance information, please contact [analogswitch@fairchildsemi.com](mailto:analogswitch@fairchildsemi.com).

### Description

The FSSD07 is a 2:1 multiplexer that allows dual Secure Digital (SD), Secure Digital I/O (SDIO), and Multimedia Card (MMC) host controllers to share a common peripheral. The host controllers can be equal to, greater than, or less than peripheral card supply with minimal power consumption. This configuration enables dual host CMD, CLK, and D[3:0] signals to be multiplexed to a common peripheral.

The architecture includes the necessary bi-directional data and command transfer capability for single high-voltage cards or dual-voltage supply cards. The clock path is a uni-directional buffer.

Typical applications involve switching in portables and consumer applications: cell phones, digital cameras, home theater monitors, set-top boxes, and notebooks.

### Analog Symbol

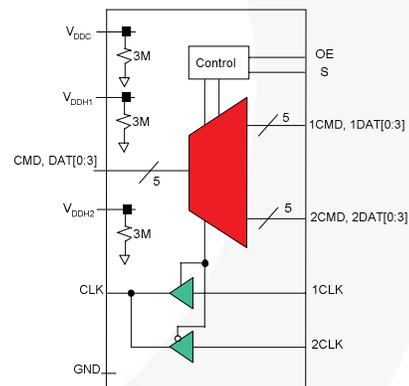


Figure 1. Analog Symbol Diagram

### Ordering Information

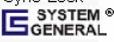
Part Number	Top Mark	Operating Temperature Range	Eco Status	Package Description	Packing Method
FSSD07BQX	FSSD07	-40°C to +85°C	Green	24-Lead Molded Leadless Package (MLP), JEDEC MO-220, 3.5 x 4.5mm	Tape & Reel
FSSD07UMX	JK	-40°C to +85°C	Green	24-Lead Ultra-thin Molded Leadless Package (UMLP), 0.4mm pitch	Tape & Reel

 For Fairchild's definition of Eco Status, please visit: [http://www.fairchildsemi.com/company/green/rohs\\_green.html](http://www.fairchildsemi.com/company/green/rohs_green.html).



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FAST®	OPTOLOGIC®	SuperSOT™.8	VXC™
FastvCore™	OPTOPLANAR®	SupreMOS™	VisualMax™
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FPST™	Power-SPM™		

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