

Product Overview

FSSD06: SD/SDIO and MMC 2-Port Multiplexer

For complete documentation, see the data sheet.

The FSSD06 is a two-port multiplexer that allows Secure Digital (SD), Secure Digital I/O (SDIO), and Multimedia Card (MMC) host controllers to be expanded out to multiple cards or peripherals. This configuration enables the CMD, CLK, and D[3:0] signals to be multiplexed to dual-card peripherals. It is optimized for 1-bit / 4-bit SD / MMC applications. 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 for the FSSD06 is a uni-directional buffer with an integrated pull-up for high-impedance mode. Typical applications involve switching in portables and consumer applications: cell phones, digital cameras, home theater monitors, portable GPS units, and printers.

Features

- On Resistance Typically 4Ω , $V_{DDH}=2.7V$ • ftoggle: $> 120MHz$ • Low On Capacitance: 9pF Typical • Low Power Consumption: $1\mu A$ Maximum • Conforms to Secure Digital (SD), Secure Digital I/O (SDIO), and Multimedia Card (MMC) Specifications • Supports 1-Bit / 4-Bit Host Controllers ($V_{DDH}=1.65V$ to $3.6V$) Communicating with High-Voltage ($2.7-3.6V$) and Dual-Voltage Cards ($1.65-1.95V$, $2.7-3.6V$)
- $V_{DDH}=1.65$ to $3.6V$, $V_{DDC1/C2}=V_{DDH}$ to $3.6V$ • 24-Lead MLP ($3.5 \times 4.5mm$) and UMLP Packages

Applications

- Media Tablets
- Storage & Peripherals
- Mobile Handsets
- Wireless LAN Card & Broadband Access
- PMP/MP3 Players

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	Number of Switches	Configuration	I_{CC} Max (μA)	r_{on} Max (Ω)	V_{CC} Min (V)	V_{CC} Max (V)	Package Type
FSSD06BQX	0.5	Pb-free Halide free non AEC-Q and PPAP	Active	1	2	SPST	1	6	1.65	3.6	WQFN-24
FSSD06UMX	0.5	Pb-free Halide free non AEC-Q and PPAP	Active	1	2	SPST	1	6	1.65	3.6	UQFN-24

For more information please contact your local sales support at www.onsemi.com.

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