



# FSA1211 — Low-Power, Twelve-Port, High-Speed Isolation Switch

## Features

- Low  $C_{OFF}$  Capacitance: 2.0pF Typical
- Low On Resistance: 7.5Ω Typical
- Low Power Consumption: 1μA Maximum
- 10μA Maximum  $I_{CCT}$  over an Expanded Voltage Range ( $V_{IN}=2.6V$ ,  $V_{CC}=4.3V$ )
- Wide -3db Bandwidth: > 720MHz
- Packaged in Space-Saving 28-Lead UMLP
- 5.5kV ESD Rating; >9kV Power/GND ESD Rating
- Low On Capacitance: 6pF Typical

## Applications

- Cell phone, PDA, Digital Camera, and Notebook
- LCD Monitor, TV, and Set-Top Box

## IMPORTANT NOTE:

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

## Description

The FSA1211 is a low-power, twelve-port, high-speed switch. This part is configured as a single-pole, single-throw switch (SPST) and is optimized for isolating a high-speed source, such as a cell phone camera interface. The FSA1211 features an extremely low on capacitance ( $C_{ON}$ ) of 6pF. The wide bandwidth (>720MHz) exceeds the bandwidth needed to pass the third harmonic, resulting in signals with minimum edge and phase distortion. Superior channel-to-channel crosstalk minimizes interference.

The FSA1211 contains special circuitry on pins A and B that allows the device to withstand an over-voltage condition. This device is designed to minimize current consumption even when the control voltage applied to the /OE pin is lower than the supply voltage ( $V_{CC}$ ). This feature is especially valuable for mobile applications, such as cell phones, allowing direct interface with the general-purpose I/Os of the baseband processor. Other applications include port isolation and switching in portable cell phones, PDAs, digital cameras, printers, and notebook computers.

## Ordering Information

Part Number	Top Mark	Operating Temperature Range	Eco Status	Package
FSA1211UMX	F1211	-40 to +85°C	Green	28-Lead, Quad, Ultra-thin Molded Leadless Package (UMLP), 3.5x4mm
FSA1211UDMX	F1211	-40 to +85°C	Green	28-Lead, Quad, Dual-Row, Ultra-thin Molded Leadless Package (UMLP), 3.6x2.9mm

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).

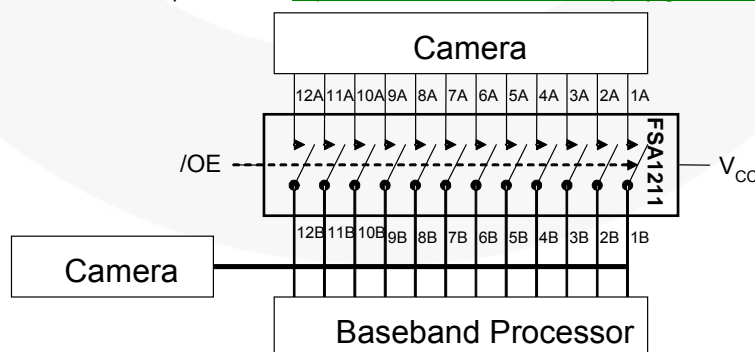


Figure 1. Analog Symbol



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**Definition of Terms**

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