



New Product Announcement

PSMUX136

High-Bandwidth Dual 2:1 Channel Multiplexer with Power-Off Isolation in HPC and Portable Applications

The PSMUX136 is a 5.5GHz (A port) and 5.3GHz (B Port), two-channel, 2-to-1 multiplexer that supports both differential and single-ended signals in high-performance PC and smartphone applications.

With its 5.5GHz bandwidth and low 0.1ns propagation delay, the PSMUX136 is designed to pass high-frequency signals and ensure excellent signal integrity.

The PSMUX136 supports a wide supply voltage range of 1.8V to 5.5V and can accommodate 1.8V logic on the control pins.

When powered down, it forces all I/O pins to be in high impedance mode, minimizing current leakage.

The PSMUX136 is available in the UQFN 10-lead (ZUA) package.



The DIODES Advantage

The PSMUX136 analog switch, with its high bandwidth, low ON-capacitance, and low power consumption, offers superior signal integrity in portable and mobile designs.

- High 5GHz Bandwidth**
 Reduces high-frequency signal attenuation of general applications, maintaining excellent signal integrity
- Low 35 μ A Current Consumption**
 Low-battery current-draw in portable systems
- Low ON-Capacitance**
 Reduces signal delay and distortion when high-frequency signals pass through the device
- I/O Pins in High-Impedance State when Powered-down**
 Provides I/O isolation which prevents an unknown state or noise influence when powered off

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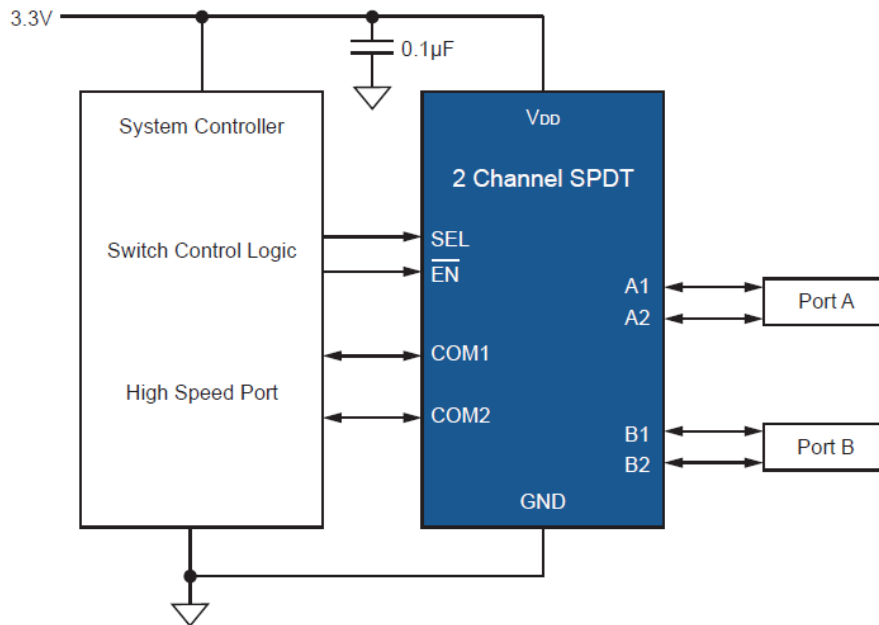
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Applications

- Smartphones
- Tablets
- Notebook PCs
- PCs
- Networking devices

Typical Application



Product Portfolio

Part Number	Type	Signal Type	Rail to Rail	Channels	Operating Voltage	-3dB Bandwidth	Isolation (240MHz)	Crosstalk (240MHz)	Package
					V	MHz	dB	dB	
PSMUX136	SPDT 1:2 Mux/Demux	Single-Ended	Yes	2	1.8V to 5.5V	A: 5,500 B: 5,300	-34	-37	UQFN-10

Ordering Information

Orderable Part Number	Compliance (Only Automotive Supports PPAP)	Package Code	Package	Moisture Sensitivity	Packing	
					Quantity	Carrier
PSMUX136ZUAEX	Standard	ZUA	UQFN-10 (1.5mm x 2mm)	MSL-1	3,000	7" Tape & Reel