



# New Product Announcement

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## PI3USB4000A

## Ultra-High Voltage Protection USB 2.0 1:2 Mux/DeMux

The PI3USB4000A is part of a family of very high performance passive signal Mux/Demux.

This family can switch USB 2.0 and UART signals with high voltage protection.

Using a unique design technology, Diodes Incorporated is able to provide 18V DC tolerance on high-speed data pin, which can prevent short to  $V_{BUS}$  on a USB Type-C™ connector

This unique technology also offers lower power consumption ( $\sim 35\mu A$ ) and compact packaging, which are ideal for mobile applications.



### The Diodes Advantage

#### High voltage tolerance USB 2.0 Mux for premium protection.

- **18V DC Tolerance on Data Pins**  
Premium protection for any damage event on connector
- **9V DC Tolerance on  $V_{DD}$**   
Full protection on system level if the system power sources from  $V_{BUS}$
- **Compact Package Options**  
1.4mm x 1.8mm UQFN and 1.5mm x 2mm UQFN
- **Ultra-Low Power Consumption**  
 $35\mu A$  for  $I_{DD}$  and  $1\mu A$  for  $I_{DDQ}$

### Applications

- Server/Storage
- Smartphone
- PC/Notebook
- Type-C Connector Protection

USB Type-C is a trademark of USB Implementers Forum.



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## Product Portfolio

Part Number	Configuration	Voltage Tolerance on Data Pin	Voltage Tolerance on VDD	Package	Temperature Range
PI3USB4000AZUA	1:2	18V	9V	10-UQFN (1.5 x 2mm)	-40°C to +85°C
PI3USB4000AZM	1:2	18V		10-UQFN (1.4 x 1.8mm)	

## Ordering Information

MPN	Packaging	MOQ
PI3USB4000AZUAEX	U-QFN1520-10	3,500
PI3USB4000AZMEX	U-QFN1418-10	3,500

## Further Information

PI3USB4000A: <https://www.diodes.com/part/PI3USB4000A>