

10Gbps DisplayPort 2.0 (UHBR10) 2-to-1 Active Mux Switch with Linear ReDriver

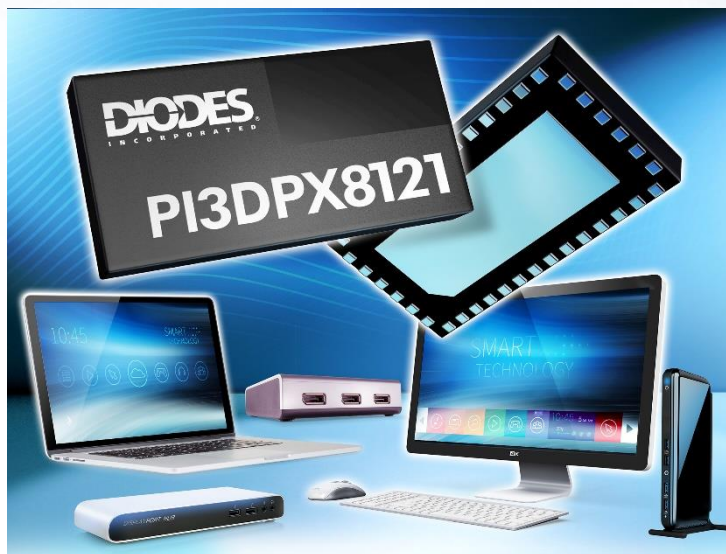
The PI3DPX8121 is the latest DisplayPort™ active switch with Linear ReDriver™ and signal mux from Diodes Incorporated which supports DisplayPort™ 2.0 (UHBR10) standard for data rates up to 10Gbps per channel.

PI3DPX8121 has 2-to-1 configuration with 4 differential channels. It provides programmable CTLE equalization, Flat Gain and Output Swing linearity controls for channel loss compensation and removes ISI jitter for channel extension.

The design is transparent to channel link training and performs ultra-low signal latency to achieve good signal integrity performance and system compatibility.

DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

ReDriver™ is a trademark of Diodes Incorporated.



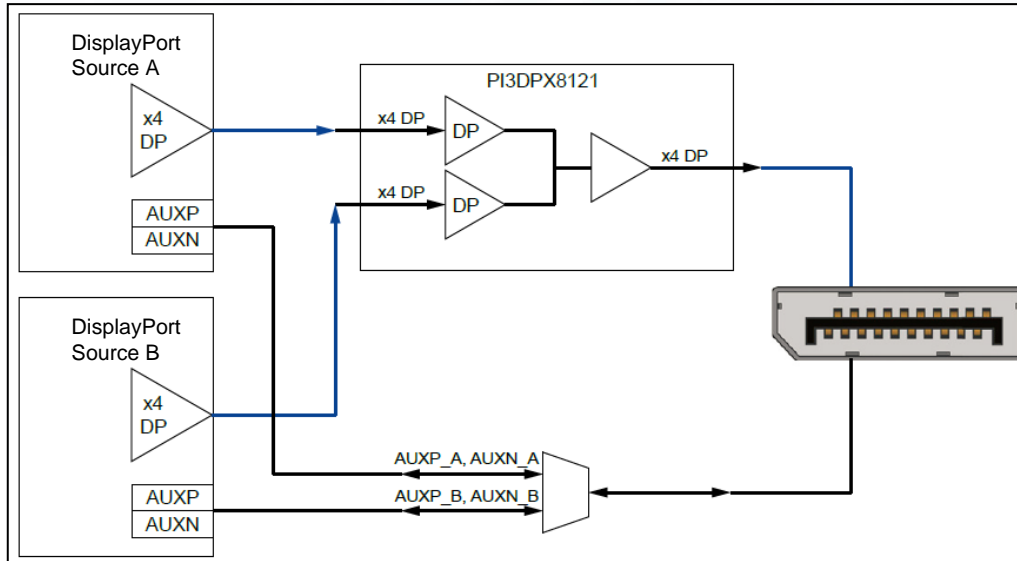
The Diodes Advantage

- **The latest DisplayPort 2.0 (UHBR10) standard support**
Supports 10Gbps data rate on each channel with aggregated 40Gbps bandwidth
- **High-speed signal integrity settings**
Supports receiver side CTLE, output side Flat Gain and Output Swing settings
- **2-to-1 active mux configuration with pin-strapping control**
- **Transparent and ultra-low latency Linear ReDriver channels**
Performs good signal integrity and compatibility for system design

Applications

- Laptop, desktop and AIO PCs
- LCD monitors and projectors
- Docking stations
- PC peripherals
- DisplayPort video switches

Typical Application Circuit



Product Portfolio

Part No	Operation Voltage	Channels	Data Rate (Gbps)	Lanes/Ports	Output Swing Max(mV)	Programming Interface(s)	Operation Temperature	Packages
PI3DPX8121	3.3V	4	10	2	1200	Pin Strap	0°C ~ +70°C	40-pin TQFN

Ordering Information

Ordering Number	Package Code	Package Description
PI3DPX8121ZLDEX	ZLD	40-pin, Thin Fine Pitch Quad Flat No-Lead (TQFN) (3x6x0.75mm)

Further Information

<https://www.diodes.com/part/PI3DPX8121>