

A Product Line of Diodes Incorporated

## **PRODUCT BRIEF**

# PI3DPX20021

#### 20Gbps, 4-Channels, DP 2.0 (UHBR20) 2:1 Mux ReDriver

#### Features

- 20Gbps Serial Link with Linear Equalizer
- Full Compliancy to DP 2.0 (UHBR20)
- Supports Four Differential Channels
- 2-to-1 Mux
- Independent Channel Configuration of Receiver Equalization, Output Swing, and Flat Gain
- 100Ω Differential CML I/Os
- Automatic Receiver Detect
- Rate and Coding Agnostic
- Transparent to Link Training
- Pin Strap and I<sup>2</sup>C Selectable Device Programming
- 3-bit Selectable Address bit for I<sup>2</sup>C
- Supply Voltage 3.3V
- Temperature Range: -40°C to 85°C
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. <u>https://www.diodes.com/quality/product-definitions/</u>
- Packaging (Pb-free & Green):
  40-Contact, ZLD40 (TQFN)

#### Applications

- Notebooks
- All-In-One PCs
- Gaming Workstations
- Desktop PCs

#### Description

The DIODES<sup>\*\*</sup> PI3DPX20021 is a low-power, high-performance 20Gbps 4-channel Mux ReDriver<sup>\*\*</sup>.

#### The 4-Channel Mux ReDriver

The ReDriver provides programmable equalization, swing, and flat gain to optimize performance over a variety of physical mediums by reducing intersymbol interference. The ReDriver supports two 100 $\Omega$  differential CML data I/Os between the Protocol ASIC to a switch fabric, over cable, or to extend the signals across other distant data pathways on the user's platform.

The integrated equalization circuitry provides flexibility with signal integrity of the signal before the ReDriver. A low-level input signal detection and output squelch function is provided for each channel. Each channel operates fully independently. The channels' input signal level determines whether the output is active.

The ReDriver also includes an adaptive power management feature to maximize battery life for power-sensitive consumer devices.

### **Ordering Information**

Part Number	Package Code	Description
PI3DPX20021ZLDEX	ZLD	40-pin, 3 x 6 mm (TQFN)

Notes:

1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/ EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. E = Pb-free and Green

5. X suffix = Tape/Reel

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单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))