The PI7C9X2G1616PR is a 16-lane PCIe® Gen 2 Switch with 16 ports and the PI7C9X2G912GP is a 12-lane PCIe® Gen 2 Switch with 9 ports. They have been specifically designed to meet high performance and the latest GREEN low-power system requirements of Networking, Telecom, Embedded, Server, Storage and other platforms.

The PI7C9X2G1616PR supports 4 DMA channels and Non-Transparent port apply for high performance, dual-host and failover applications. The PI7C9X2G912GP supports x2 configurations for high performance and multiple functional applications. The PI7C9X1616PR/2G912GP provides elastic configurations of link width and port distribution.

Both are available in the -40°C to +85°C Industrial Temperature Range. The PI7C9X2G1616PR is available in the 324-pin HSBGA 19mm x 19mm package and the PI7C9X2G912GP is available in the 196-pin LBGA 15mm x 15mm package.

**Applications**

- Networking Switch Router
- Wired/Wireless Telecom
- Data/Communication
- Control Plane
- Embedded Systems
- HBA/Combo Cards
- IPC/Industrial control
- Printer/MFP/Peripheral
- Surveillance/Security
- Fail-Over System
- NAS/Storage
- Servers

**The Diodes’ Advantage**

- Compliant with PCIe® 2.1 Specification
- Have Multi x2 downstream ports
- Supports Serial Hot-Plug
- Wide Operating Temperature at -40 to +85°C
- Advanced Power Management
- Makes Plug & Play applications easier
- Meets commercial and industrial applications needs without restriction
- Connects to the latest green and low power applications requirements
- Flexible design and full resource utilization
- Ensures good interoperability

**PCI Express is a registered trademark of PCI-SIG Corp.**
Typical Application Example

- PI7C9X2G1616PR in Networking Switch/Router

**Part Number**

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Protocol</th>
<th>Ports</th>
<th>Lanes</th>
<th>Power L0 (W)</th>
<th>Latency (ns)</th>
<th>Operating Temperature (°C)</th>
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Visit Diodes website to get more product information

**PI7C9X2G1616PR**

**PI7C9X2G912GP**

**Ordering Information**

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<th>Operating Temperature (°C)</th>
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<th>Quantity per Tape &amp; Reel</th>
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† Note: Adding an X suffix = Tape/Reel