Accelerate to The Future PEMUX Introduction

The PEMUX allows users to deliver with maximum 56 lane of PCI Express 3.0 to PEMUX backplane while taking advantage of the speed and increased bandwidth of PCI Express.

What is PEMUX ?

Bringing PCI Express to your SBC with maximum lane signal quantity, increased speed and bandwidth
 PEMUX is designed for AI computing usage. AI computing needs to expand accelerator card, and PEMUX can provide up to 56 lane PCIe signals to the backplane.
 All PCIe signal connect to CPU directly, this is perfect for applications that require minimal latency.

New pin definition for PCIe signal pass through to backplane
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With the maximization of PCIe lane signal quantity, we need the brand new pin define for supporting all signals pass through to the backplane, we called PEMUX design which defined by IEI.

The Advantage of PEMUX

- Maximum 56 lane PCIe signals signals to fulfill AI deep learning
 or inference demand
- IPMI remote management

The Benefits of PEMUX

- With the backplane can expand up to 4 dual width graphics cards
- Use Intel® Xeon W High performance processor

Full-size PEMUX PCIe Slot Configuration



