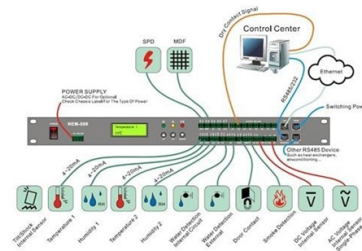


PCI distribution box



AI Overview

A PCI distribution box is an external or internal expansion device that allows a single PCI or PCIe slot on a motherboard to support multiple additional PCI or PCIe cards, increasing connectivity and device capacity.

Overview A PCI distribution box (also called a PCI expansion box or PCIe expansion chassis) is designed to expand the number of PCI or PCIe slots available from a single motherboard slot. It enables users to connect multiple peripheral cards such as GPUs, NVMe SSDs, network interface cards, or other PCI-based devices without being limited by the motherboard's built-in slots.

Key Features

- Slot Expansion:** Common configurations include 2 PCI + 2 PCIe slots (EX-1020) or 4 PCI slots (EX-1012), allowing multiple devices to operate simultaneously.
- Power Supply:** These boxes are typically powered externally via a 12V DC or 12V/3A adapter to ensure stable operation for all connected cards.
- Plug-and-Play:** Many models automatically assign I/O addresses and interrupts, eliminating the need for manual jumper settings or additional drivers.
- Connectivity:** Connection to the host system is usually via a PCIe adapter card and a high-quality cable, sometimes USB-C for certain models, ensuring low latency and high bandwidth.
- Compatibility:** Supports standard PCI and PCIe cards, including serial, parallel, USB, FireWire, and high-performance devices like GPUs and FPGAs.

Applications

- Server and Data Center Expansion:** High-performance PCIe expansion boxes are used in servers to increase GPU density, enable NVMe storage pooling, or support composable architectures for AI and data-intensive workloads.
- Industrial and Laboratory Use:** External PCI boxes allow testing or deployment of multiple PCI-based instruments without modifying the main system.
- Legacy Hardware Support:** Enables modern systems with limited PCI slots to run older PCI cards.

Examples

- EX-1020:** Expands a single PCIe slot into 2 PCI and 2 PCIe slots, powered by a 12V DC adapter, suitable for general PCI expansion.
- EX-1012:** Provides 4 PCI slots with automatic I/O and interrupt...

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PCI stands for Peripheral Component Interconnect. It is a standard information transport that was common in computers from 1993 to 2007 or so. It

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