



PowerNet Legacy Destroyer I/O Virtualization And Cyber Security



Legacy I/O Virtualization & Cyber Security Benefits

- Density - Removes Legacy I/O cards from Servers
 - Increases Server connection capability; consolidates computing
- Cables and Cost: Reduces expensive legacy cable runs
 - PowerNet Legacy Destroyer connects to Servers over Ethernet
 - Signals sent through consolidated copper or fiber cables to Servers
- Cyber Security – Implements FIPS Compliant Encryption & Tamper Proofing
 - Ethernet equipment signals are encrypted at the source
 - Prevents Hacking and “Man in the Middle” attacks
- Virtual Machine Support - Eliminates PCI/PCIe devices and bridge issues
 - Example – VMware requires Direct I/O support and configuration
- Failover Improvement – Allows for alternate VMs or Servers to take over if a VM or Server crashes without reconfiguration



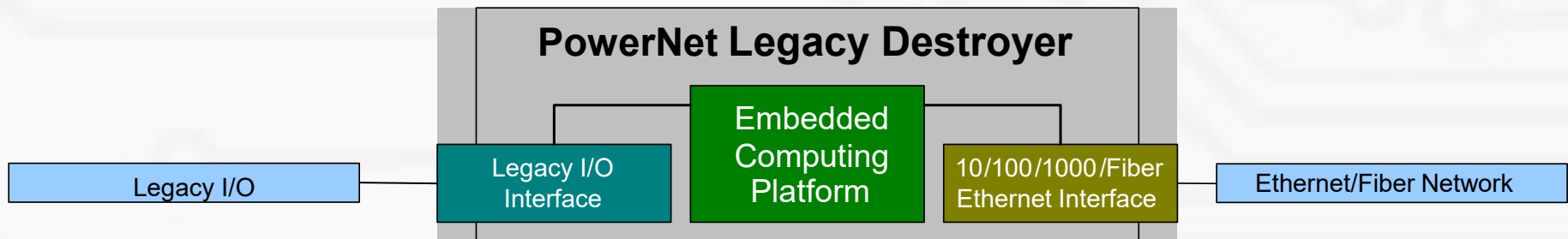
PowerNet Legacy Destroyer

PowerNet Legacy Destroyer

allows for direct connection of legacy I/O to an Ethernet or Fiber based network

Allows for multiple types of interfaces to be connected in a “plug-and-play” fashion

Real time requirements for legacy I/O are handled by the converter



Rugged PowerNet – 901D Grade A

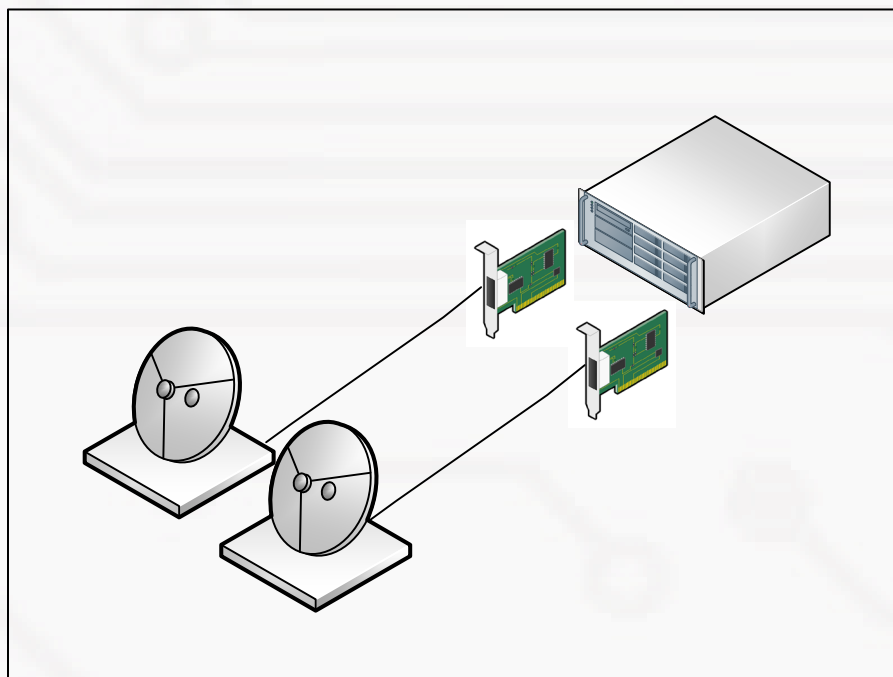


Rackmount PowerNet

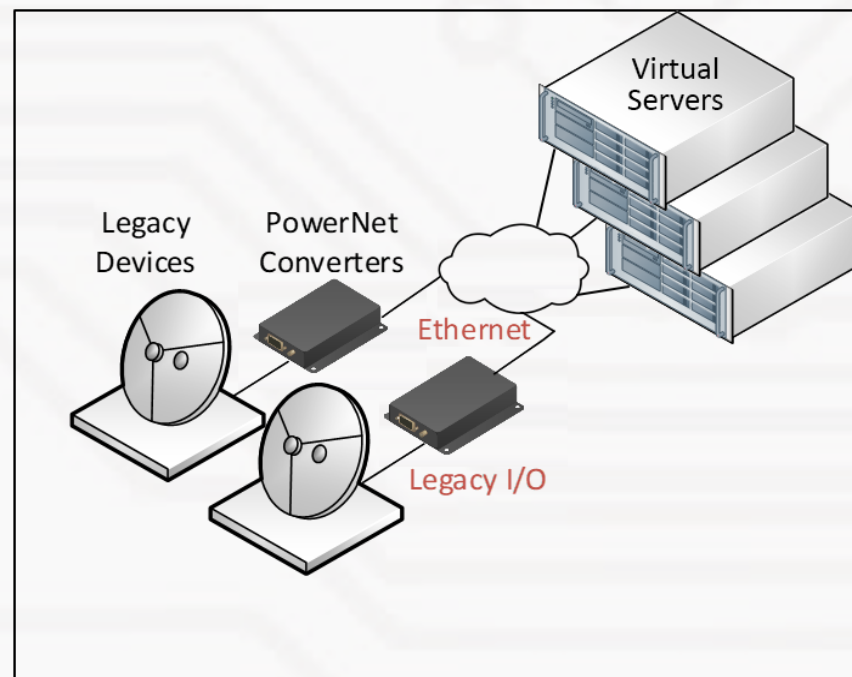


Legacy I/O Virtualization

Removes Legacy I/O cards from Servers – NTDS, RS-232/422/485, and more
Input to Server via Ethernet (Copper or Fiber)



Legacy Architecture

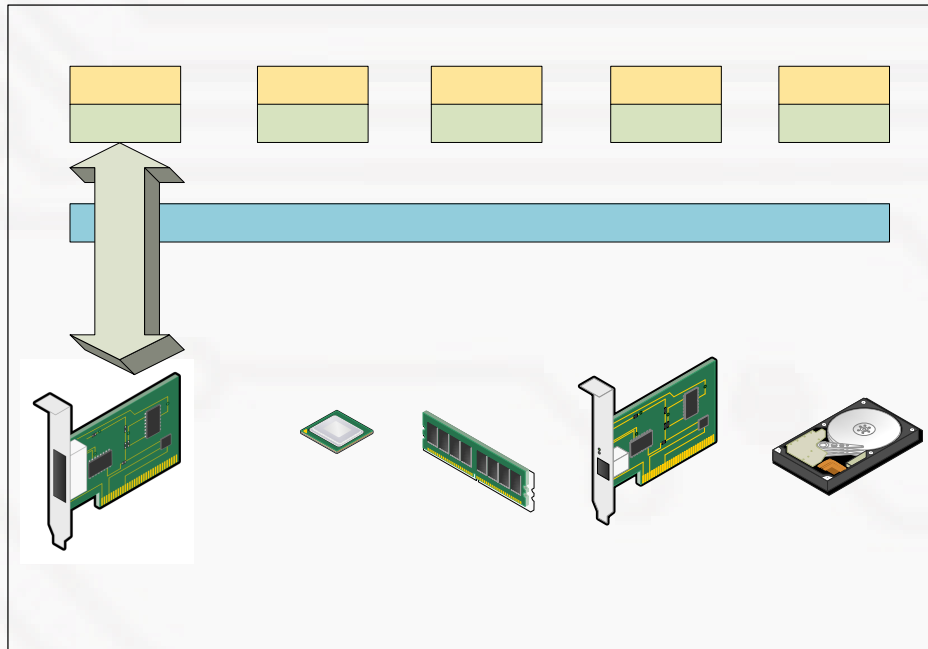


Legacy I/O Virtualized Architecture



Server Virtualization Support

PowerNet Legacy Destroyer virtualizes the signal at the source.
Server slots can be used for other functions.



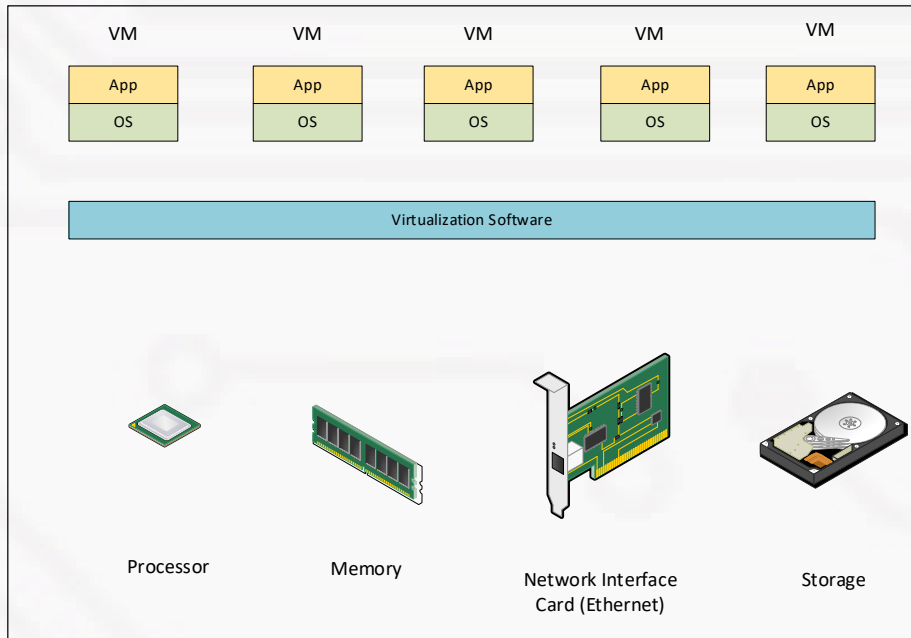
Legacy I/O in the Server allows only one Legacy device to work with one VM at a time through technology such as VMware Direct I/O. Virtualization eliminates this.

Support for Direct I/O is limited and won't work properly with many devices. Virtualization eliminates this.



Server Virtualization Support

Server without Legacy I/O cards can now use Network Interface Card(s) for Virtualization



Processors, Memory, Network Interface Cards (Ethernet), and Storage are all fully supported for Virtualization

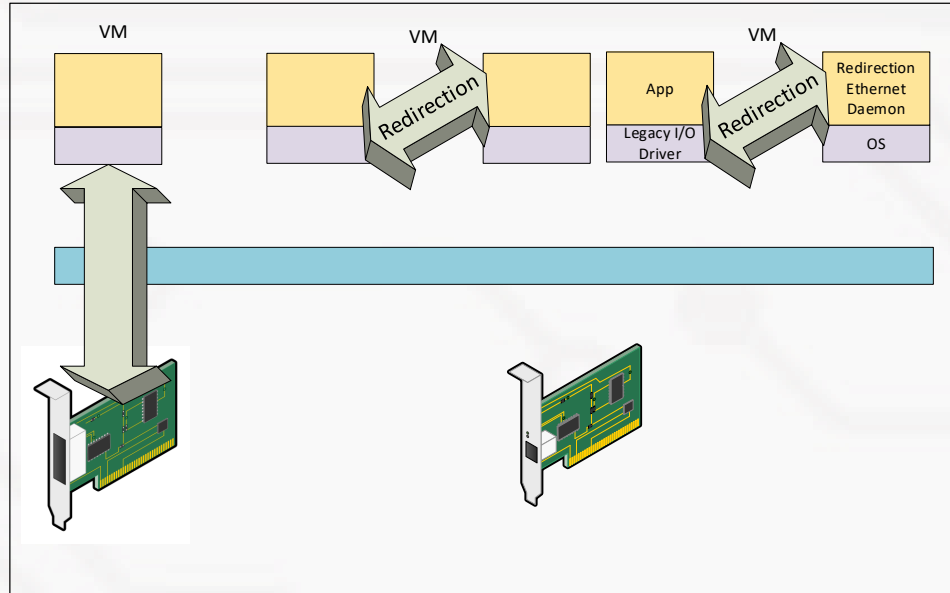
Multiple VMs can now access legacy I/O through the Network Interface Card (Ethernet) for additional flexibility and improved failover



Legacy I/O Redirection

Feature that allows existing software written for Legacy I/O to be transparently redirected to Ethernet through the existing IXI legacy I/O driver

Existing software can be used without changes or recompilation, only requires an added configuration file and redirection service (daemon) to run that doesn't depend on existing software applications



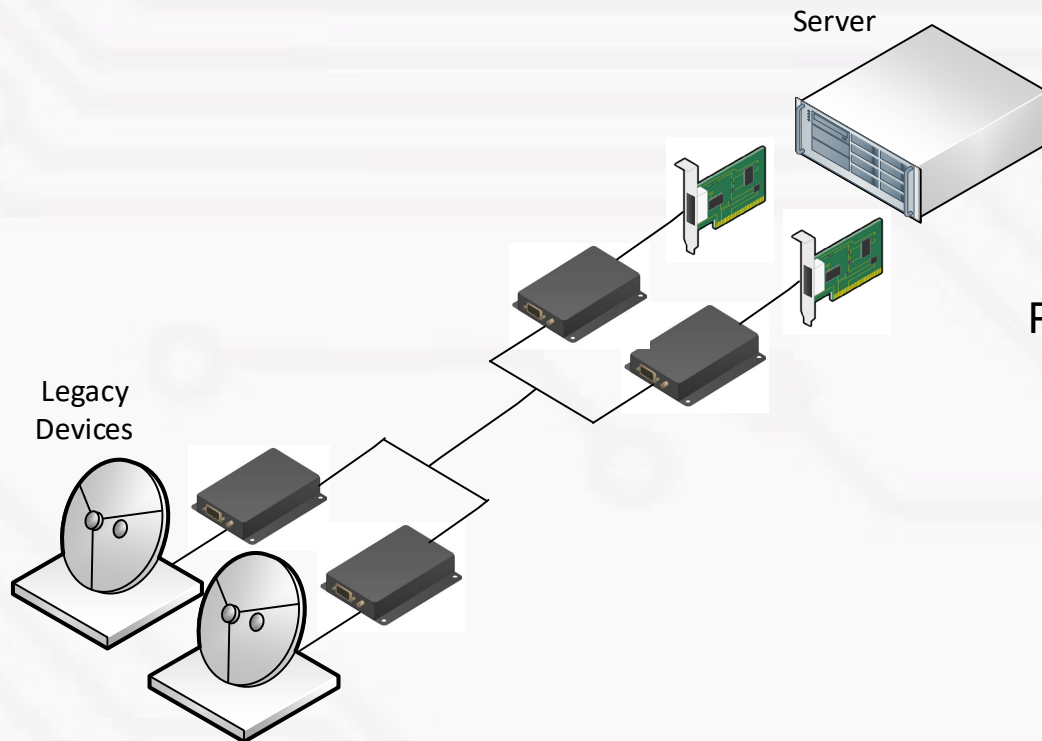
Legacy driver and redirected configurations can coexist peacefully on different Virtual Machines on one Server



Use Case

Legacy I/O Bridge

Where Legacy I/O cabling doesn't exist, Legacy I/O can be transparently bridged through an Ethernet network



Benefits

Provides Cyber Security at the Legacy source

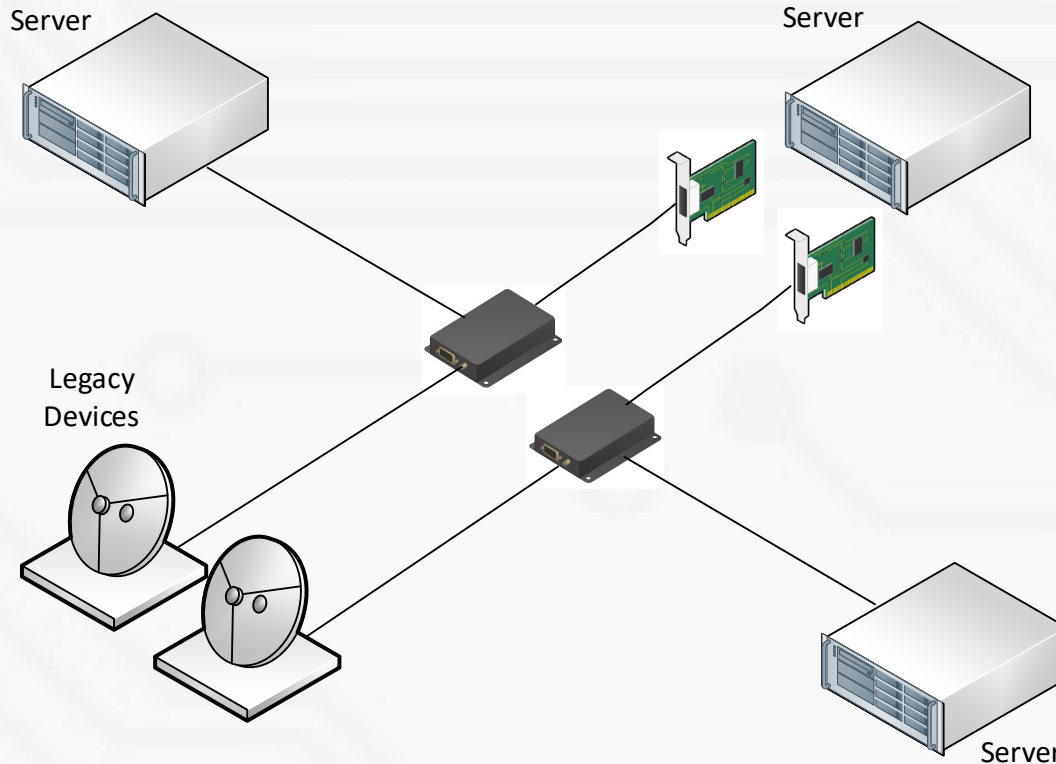
Reduces total cable weight



Use Case

Tap Existing Legacy I/O Cable

Current Legacy I/O cabling can be tapped to allow for sending Legacy I/O to additional locations or to scan for cyber securing monitoring and assurance



Benefits

Convert Legacy I/O to Ethernet and pass on data to additional systems

Provides Cyber Security at the Legacy source

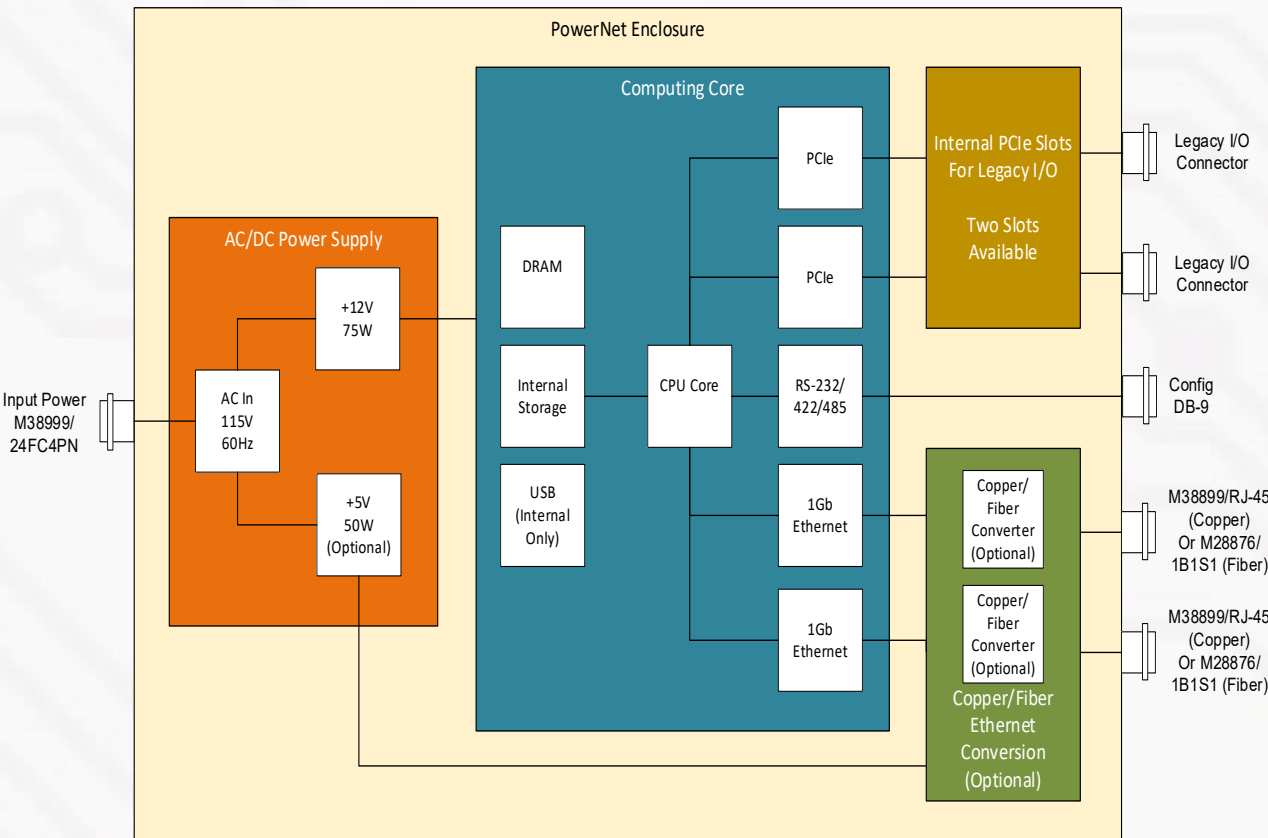
Provides monitoring of Legacy I/O channels for added Cyber Security

Tap preserves Legacy I/O signal integrity



Adding Legacy I/O

Additional Legacy I/O can be added to the PowerNet converter via internally available PCIe slots



Benefits

MIL Qualified Enclosure/Power Supply and 1U Rackmount Options

Reduces risk for virtualizing Legacy I/O

Reduces effort for virtualizing Legacy I/O

Contact IXI Technology with any Legacy I/O Virtualization Requirements!



Questions?

For more information contact:

Amy Broschak

Account Executive

714-221-5000 (Office)

714-221-5011 (Direct)

amybroschak@ixitech.com

Or visit us on our website www.ixitech.com.