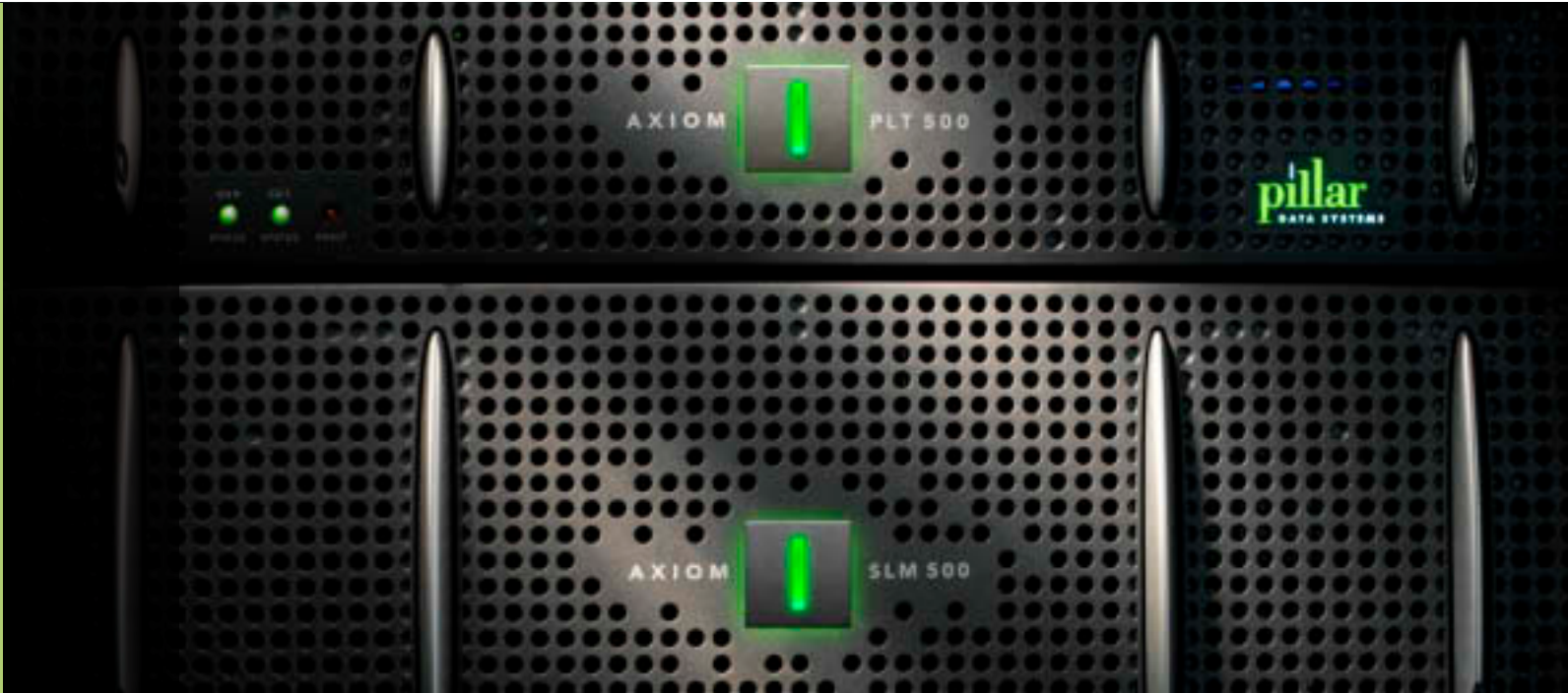


Slammer Storage Controller

Pilot Policy Controller

Pillar Axiom™ Storage System



The Pillar Axiom Slammer and Pilot controllers provide high-availability data movement and management. These components are tightly integrated with Pillar's Axiom Storage Manager software via a secure, Web-based administrator interface to enable intuitive storage management and monitoring.

Benefits:

- Modular design allows for flexible system growth
- Uses redundant hardware and the Axiom storage Manager Software to ensure reliability, availability, security and ease of use
- Designed to be highly available, flexible and fault-tolerant, yet simple to install, implement, provision and manage
- Critical components have duplicate, active backup to virtually eliminate any single point of potential hardware failure

Pilot Policy Controller

Pilot Policy Controllers provide the management interface for Pillar Axiom storage systems. Each Pilot uses redundant hardware and Axiom Storage Manager software to ensure reliability, availability, security, and ease of use.

Controller advantages:

- Ensure continuous availability of storage management with two independent control units that operate in an active/passive mode.
- Manage all storage management and data protection features using a single policy-based framework through a Web-based GUI.
- Allocate hardware assets where they are needed most with policy-based management via Quality of Service (QoS) metrics.
- Ensure confidence in change management with guided maintenance.

Slammer Storage Controller

Slammer Storage Controllers are the high-performance, high-reliability data movers and managers for Pillar Axiom Storage systems. A Slammer does more than just move data. By virtualizing the storage pool, the Slammer can grow file systems and LUNs seamlessly.

Slammer advantages:

- SAN and NAS functionality scales horizontally with dual active/active control units
- Intelligently mirror and stripe file systems and LUNs for additional data protection
- Enjoy high availability with two control units that are identically configured, with the same interfaces and memory configurations
- Battery-backed write cache is mirrored between control units to ensure data integrity in the unlikely event of control unit failure
- Scale Axiom performance by adding Slammers without incurring additional software licensing fees



Rear View of Pillar's Slammer Storage Controller

Axiom Storage Manager Software

The Pilot Policy Controller is enabled by Axiom Storage Manager software, which allows system administrators to allocate storage resources, specify QoS, and define storage automation parameters through easy-to-use policies.

Pillar Storage Manager Software advantages:

- Simplify storage management with policy-based controls
- Simplify provisioning and management with easy-to-use graphical interface
- Generate full copies of data with Axiom Volume Copy, or utilize a rich set of data protection tools with write-only deltas Snap FS and Snap LUN snapshots
- Realize proactive administrative actions with automatic display and notification of critical status changes and events
- Address potential problems before they occur with compilation and delivery of system health and performance statistics to Pillar Customer Service
- Enable centralized management of storage infrastructure through integration with leading management framework software vendors



Storage Manager Software

Slammer Storage Controller



Pilot Policy Controller



Features and Specifications

External Interfaces

Four 1 GbEthernet interfaces for host-to-LAN connectivity on NAS Slammers
Four 2 Gb Fibre Channel ports for host-to-SAN connectivity on SAN Slammers

Internal Interfaces

Six 10/100 Base-T Ethernet interfaces for Slammer/Pilot connectivity
26 – 2 Gb Fibre Channel interfaces for Brick/Slammer connectivity

Control Unit Components (Two per Slammer)

Two Intel Xeon 2.4 GHz processors
Up to 12 GB of RAM
Optional Fibre Channel or SCSI card for tape attachment

Redundant and Hot-Swappable Components

Two load-balancing power supplies and fans per control unit
Two active/active control units per Slammer
Fibre Channel interface modules
Gigabit Ethernet interface modules
Motherboards

Supported Protocols

Network Protocol Support:

NFS V2/V3 over UDP or TCP
CIFS
NDMP

SAN Protocol Support:

Fibre Channel Protocol (FCP) for SCSI;
fabric-attached and direct attached

Interfaces

Four 10/100 Base-T Ethernet private management interfaces (PMI)
Two 10/100 Base-T Ethernet interfaces for management LAN connectivity

Control Unit Components

Two control units per Pilot with active/passive failover
Intel Celeron 2.5 GHz processor per control unit
512 MB of RAM per control unit

Supported Protocols

SNMP NTP
SSH FTP
HTTP SMTP
NDMP

Dimensions

Enclosure Dimensions

Height	7 in	17.78 cm (4U)
Width	17.7 in	45 cm
Depth	26 in	66 cm
Weight	91 lbs	41 kg

Enclosure Dimensions

Height	3.5 in	8.89 cm (2U)
Width	17.7 in	45 cm
Depth	26 in (max)	66 cm
Weight	40 lbs	18.2 kg

Power

Frequency	50 – 60 Hz
AC Voltage	90 – 264 VAC
Max Power Consumption	360 VA
Max Heat Dissipation	2,220 BTU/hr
AC Plug Type	IEC 320 C13 connections

Frequency	50 – 60 Hz
AC Voltage	90 – 264 VAC
Max Power Consumption	360 VA
Max Heat Dissipation	1,230 BTU/hr
AC Plug Type	IEC 320 C13 connections

Environmental

Operating Temperature	10 – 40 degrees C
Temperature Gradient	10 degrees C/hr
Relative Humidity	10 – 85 percent non-condensing
Humidity Gradient	10 percent/hr non-condensing

Operating Temperature	10 – 40 degrees C
Temperature Gradient	10 degrees C/hr
Relative Humidity	10 – 85 percent non-condensing
Humidity Gradient	10 percent/hr non-condensing

Non-Operating Temperature	-40 – 70 degrees C
Temperature Gradient	30 degrees C/hr
Relative Humidity	5 – 95 percent non-condensing
Humidity Gradient	10 percent/hr non-condensing

Non-Operating Temperature	-40 – 70 degrees C
Temperature Gradient	30 degrees C/hr
Relative Humidity	5 – 95 percent non-condensing
Humidity Gradient	10 percent/hr non-condensing