

Quantum®

Lattus P100



> DATASHEET

Infinite. Online. Durable. Cost Effective.

The Lattus™ P100 is a modular object storage system that allows you to scale out or geo-spread to 6 PB, so you can easily keep up with data growth, storage management needs and deliver on business objectives. For large-scale data that requires long-term retention with easy and fast retrieval, the Lattus P100 is designed to facilitate a “Data Forever” architecture for investment protection and ease of operation.

SIMPLE TO INSTALL AND USE

For large-scale data, the Lattus P100 presents an Amazon S3™-compliant object interface that can easily integrate with existing S3-aware applications. Real-time system management is provided by ActiveScale SM which manages your entire namespace, not just one rack, and combined with ActiveScale CM cloud-based analytics which provides historical and predictive capabilities to better manage large-scale storage efficiently and effectively.

SIMPLE SCALABILITY

The Lattus P100 is based on a modular storage node architecture that starts with 720 terabytes (TB) of raw storage and scales up in increments of 720 TB to over 2 PB. Additionally, the system can scale out or geo-spread to over 6 PB. Each system delivers up to 8 GB/sec throughput for high productivity. Grow your system without re-balancing and avoid forklift upgrades with dynamic data placement. IT staff can easily add capacity and performance to keep up with high data growth rates, and manage it with ease.

OUTSTANDING AVAILABILITY AND DURABILITY

Advanced data availability and integrity are essential for a world-class cloud infrastructure. The Lattus P100 can be deployed in a 3-site configuration to geographically disperse data for extreme availability. Even with a data center outage, the 3-site configuration delivers continuous data availability for uninterrupted operations. Data durability comes from patented BitSpread® technology. In addition, BitDynamics™ provides high data integrity using background verification and assurance. For ransomware attacks, object versioning provides the ability to quickly recover data to minimize impact. Finally, with Lattus’s strong consistency, in contrast with eventual consistency found in many other object storage systems, you don’t have to worry about stale data impacting business decisions.

EASE OF INTEGRATION

When combined with Quantum StorNext® appliances, the Lattus P100 can be integrated into high-performance workflow environments, simply added as NAS-connected storage for easy integration, or a combination of these as part of a comprehensive storage infrastructure. Scale, cost management, content protection and workflow integration can now be addressed via a single pane of glass.

FEATURES & BENEFITS

Easy to Deploy

Rack space, power and network connections are all that is needed.

Easy to Scale

Increase capacity with both scale-up and scale-out configurations.

Extreme Data Durability

Data protection with BitDynamics, BitSpread, versioning and advanced erasure coding.

System Availability

Geo-spread system protects data without replication.

Excellent TCO

Low acquisition cost, power/TB, and operating costs.

Management

ActiveScale SM & CM manage your entire namespace for efficient petabyte-scale storage management.

APPLICATIONS/ENVIRONMENTS

Media & Entertainment

- Production Media Archive
- On-premises S3 Media Target

Life Sciences and Health Care

- Genome data banks
- Medical imaging

Backup and Archive

- Tape consolidation
- Active data repository

Analytic Storage Tier

- Data lake repository

Cloud Service Providers

- Backup-as-a-Service
- Storage-as-a-Service

> **LEARN MORE:**
www.quantum.com/lattus

SPECIFICATIONS

	Base Configuration	Scale-up Module	Standard (Base+2 Scale-up Modules)
Capacity¹			
Configuration capacity (raw/usable)	720 TB	720 TB	2.16 PB
Maximum multi-part object size		50 TB	
Software			
Operating system software	ActiveScale OS 5.x		
Management interfaces	Real-time System Management Console, CLI, RESTful API		
System analytics	ActiveScale CM, a cloud-based storage analytics service		
Security	Data encryption in flight SSL/TLS using AES-256, Data encryption at rest (AES-256)		
Data protection	BitSpread: Advanced Erasure Coding and Dynamic Data Placement		
SW/FW upgrades	Non-disruptive rolling upgrades		
Characteristics			
Performance	Client throughput performance up to 8 GB/sec		
Data durability	Up to 17 nines (99.99999999999999%)		
Connectivity			
Protocols	RESTful S3		
Client connectivity	60 Gbps/base (6x10 Gb/sec)		
Physical size²			
Rack space requirements (rack units)	12RU	6RU	24RU
Configuration weight (kg/lbs)	274 kg/605 lbs	191 kg/421 lbs	656 kg/1,447 lbs
Power			
Power consumption – typical/max (W)	1.85/2.03 KW	1.38/1.51 KW	4.61/5.08 KW
Power consumption – typical/max (KVA)	1.89/2.06 KVA	1.39/1.53 KVA	4.67/5.12 KVA
Power characteristics	208-240 V, single-phase or three-phase with redundancy and intelligent power		
Environmental²			
Cooling	Redundant high-efficiency fans		
Temperature range – operating	5 °C to 35 °C		
Temperature range – non-operating	-40 °C to 65 °C		
	8% to 90% (non-condensing)		
Compliance	FCC/ICES-003, CE, VCCI, CISPR 22, CISPR 24, KN22, KN24, EN60950-1 2nd edition, UL60950-1 2nd edition		
BTUs/hr (typical/max)	6.31/6.92 K BTU/h	4.70/5.15 K BTU/h	15.71/17.22 K BTU/h
Carbon footprint (max)	0.001 Metric Tons	0.001 Metric Tons	0.003 Metric Tons

¹ One MB is equal to one million bytes, one GB is equal to one billion bytes, one TB equals 1,000 GB (one trillion bytes) and one PB equals 1,000 TB when referring to storage capacity. Usable capacity will vary from the raw capacity due to object storage methodologies and other factors.

² Rack not included, customer must supply rack and PDU.

ABOUT QUANTUM

Quantum is a leading expert in scale-out storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at www.quantum.com/customerstories.