vmPRO 4000

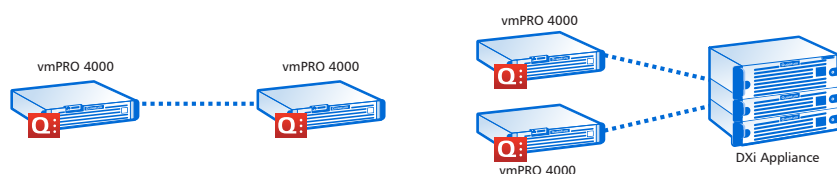Simple, Powerful, Affordable Protection
for Virtual Machines

Complete backup and recovery solution for virtual machines in smaller sites combining turnkey simplicity, advanced technology, and affordability

As users in small businesses and remote sites put more data on virtual machines, the problem of protecting the virtual environment becomes more critical and more complex. Quantum's vmPRO 4000 provides the answer. The vmPRO 4000 is a complete data protection solution that combines turnkey simplicity with advanced VM protection technology and market-leading value. It's an all-in-one protection solution for virtual machines in SMBs and remote offices that includes both backup software and storage to retain months of data. Its high-speed backup utility writes data directly to disk and leverages industry-leading deduplication for long-term retention. For DR protection, the vmPRO 4000 automatically replicates deduplicated data to other vmPRO systems or to DXi appliances in central sites.

vmPRO 4000 systems are built on an innovative combination of technologies specifically designed to provide faster and more effective VM protection. Their progressive optimization technology filters out unassigned or inactive data in each VM to reduce the data being backed up, maximizing server, network, and storage utilization and increasing performance. vmPRO software runs on its own virtual appliance, eliminating the need for agents or separate physical servers. And, it provides a native, file system view of all the backup data, enabling fast, easy single-file restores and supporting non-backup uses (test environments, archive access, e-discovery, etc.).

The vmPRO 4000 provides the industry's highest level of overall value. One affordable price gives users everything they need for protecting all their VMs, with no hidden costs or extra charges. The deployment process is fast and easy, with automated discovery of VMs, simple scheduling options, secure remote administration for multiple units, and capacity-on-demand scalability for non-disruptive growth. For sites using conventional backup apps, the vmPRO 4000 improves the effectiveness of legacy backup applications for VMs and can consolidate protection for both physical and virtual servers.

For automated DR protection, vmPRO solutions replicate deduplicated data to other vmPRO systems. In distributed deployments, multiple devices can replicate data to a DXi appliance in a data center.

KEY BENEFITS

Turnkey protection for all your virtual machines
- Backup software and storage in one, integrated solution
- Systems optimized for SMBs and remote offices
- Includes deduplication for long-term retention of data on disk
- Integrated replication capability provides automated DR protection compatible with DXi appliances
- Capacity-on-demand scalability for non-disruptive growth without a service visit or added hardware
- Includes support for legacy backup apps and physical server backup to protect user investments

Innovative technology combination for better VM protection
- Progressive optimization filters out inactive data to reduce the size of backup jobs, maximizing performance and resource utilization
- Virtual appliance-based backup design eliminates agents and extra servers
- Native file system view of VM backup means fast single-file restore and flexible, non-backup data use
- Simplifies management of virtual environment for all administrative functions
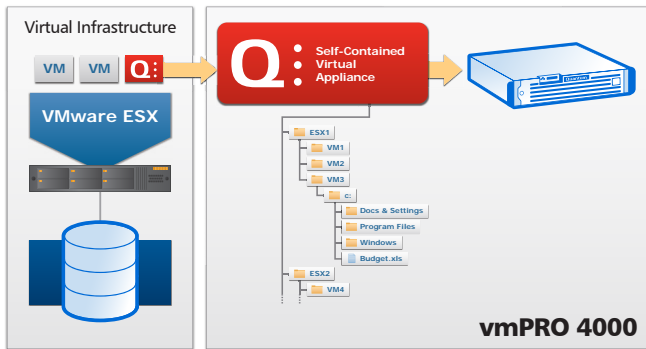- Compatible with major backup applications

Delivers market leading value
- One affordable price includes all software and hardware for a complete protection system
- Simple, automated backup features with easy set up and low admin overhead
- Secure remote administration enables central management of remote offices

Supported by Quantum, the backup, recovery, and archive specialist
- Single point of service and support for the entire solution set
- On-site and phone support from the leading backup specialist
- Supported by worldwide network of technology and sales partners

vmPRO 4000

Virtual Infrastructure

vmPRO 4000

The vmPRO 4000's unique combination of innovative VM optimization technology and industry-leading deduplication provides higher performance and better data reduction than any software-only product or dedupe appliance alone can offer. This turnkey, affordable solution offers a wide range of key technical features to provide flexible and effective protection across VM environments.

- Application runs on self-contained VM appliance, no agents or dedicated servers
- Provides image level backup and direct, file-level restore
- Auto-discovery of VMs for better protection in dynamic environments
- Uses vStorage API to access all VMs—running or idle—from one location
- Fully manageable within the vCenter console
- Full support for vSphere 4.X and vSphere 5.0
- VSS support for Windows Shadow Services
- Variable-length block-level deduplication for maximum data reduction
- Capacity-on-demand scalability on vmPRO 4601 models for software-key enabled growth with no additional hardware or service visit required
- Replicating data protected by AES-128 encryption
- Native format access to backup data (CIFS or NFS)
- Auto-retention policy that retains the backups within the designated retention period

vmPRO 4000 HARDWARE SPECIFICATIONS

VIRTUAL ENVIRONMENT COMPATIBILITY

VMware vSphere 4 and vSphere 5

USABLE CAPACITY

vmPRO 4510	2TB
vmPRO 4601	4, 8, or 12TB capacity-on-demand scalability enabled with license key

SYSTEM

Presentation Layers	• NAS Backup Target (CIFS or NFS) • Symantec OST Logical Storage Unit
Performance	OST: 1.7TB/hr write NAS (CIFS/NFS): 1.7TB/hr write
Replication	Asynchronous, one-to-one or multiple-to-one configurations

DEDUPLICATION

System performs variable-length block deduplication inline for the most efficient disk utilization

POWER ENVIRONMENT

Input Voltages:	100 to 240 VAC
Rated Frequency:	50 to 60 Hz

HOST TO DXi APPLIANCE H/W INTERFACE

4x 10/100/1000 BaseT Ethernet

CLIMATIC ENVIRONMENT

TEMPERATURE

Operating:	50° to 95°F (10° to 35°C)
Shipping & Storage:	-40° to 149°F (-40° to 65°C)

RELATIVE HUMIDITY

Operating:	20 to 80% non-condensing
Shipping & Storage:	5 to 95% non-condensing

ALTITUDE

Operating:	-50 to 10,000ft (-15.2 to 3,048m)
Shipping & Storage:	-50 to 39,370ft (-15.2 to 10,668m)

PHYSICAL SPECIFICATIONS

W × L × H (inch/cm)	17.19 / 43.6 × 24.09 / 61 × 3.40 / 8.6
Weight (lbs/kg)	49.5 / 22.5

AGENCY CERTIFICATIONS

SAFETY
IEC 60950-1 (ed. 1), CSA 60950-1-03/UL 60950-1 1st Edition

EMISSIONS
EN55022 Class A, FCC Part 15 Class A, ICES-003 Class A, VCCI Class A, CISPR 22 Class A, CNS13438 Class A, KN22 Class A

For contact and product information, visit quantum.com or call 866-809-5230

Quantum.

Preserving the World's Most Important Data. **Yours.**™

About Quantum

Quantum Corp. (NYSE:QTM) is a proven global expert in data protection and Big Data management that provides a unique combination of intelligent storage solutions and unmatched value for traditional, virtual and cloud environments. From small businesses to multinational enterprises, more than 50,000 customers trust Quantum to help cost-effectively manage data growth and extract the full value from their digital assets. Quantum's offerings include: DXi®-Series disk-based deduplication and replication systems for fast backup and restore, vmPRO solutions for protecting virtual machine data, Scalar® tape automation products for disaster recovery and long-term data retention, and StorNext® Big Data management software and appliances for high-performance file sharing and archiving.