

StorNext G300 Gateway

Flexible & Affordable Access for StorNext Big Data Environments



STORNEXT SOLUTIONS FOR BIG DATA

From video surveillance to seismic exploration to DNA research, companies are experiencing tremendous growth in unstructured Big Data digital assets. This digital content is very high in volume, is often difficult or impossible to recreate, and is of utmost value to the business or institution. Quantum's StorNext® appliances are purpose-built for Big Data and provide customers with scalable, high-performance solutions that are cost-effective and easy to manage. The StorNext G300 Gateway Appliances provide flexible and affordable access to Big Data by leveraging high-speed networking technologies to virtualize Ethernet access to data stored in StorNext for rapid content delivery and on-demand access.

BALANCED PERFORMANCE

The StorNext G300 Gateway appliance is optimized, validated and supported by Quantum, delivering on-demand streaming client performance beyond any traditional LAN-based solution in the industry. The Gateway is ideal for customers who have farms of servers (rendering, seismic processing, desktop editors, etc.) all needing high-speed and concurrent access to shared data sets, but without the requirements of Fibre Channel speeds. The G300 Gateway family includes two models—the StorNext G301, 1GbE model with a throughput aggregate of 800MB/s, and StorNext G302, 10GbE model with a throughput aggregate of 1.6GB/s. They are easily provisioned, purpose-built and configured for optimal performance with StorNext software, and designed to deliver a blend of performance, scalability, and high availability. For future investment protection, a conversion kit from 1GbE to 10GbE is also available.

The built-in StorNext software is designed to monitor the load between multiple G300 Gateways and will dynamically re-allocate requests to balance the traffic across all available gateway Network Interface Cards. If a G300 Gateway should fail, the I/O requests for that gateway will be re-directed to another active gateway. This protects the LAN Clients from losing access to their data. Since this process happens automatically, it greatly reduces the administrative load of having to re-map and mount the client machine to a new target, as typically occurs in traditional NFS/CIFS LAN connections.

INVESTMENT PROTECTION

A new license model enables greater flexibility, making it easier than ever to dynamically add new clients and accommodate changes in workflows or the overall configured StorNext environment. Users can connect as many clients as can be accommodated by the available bandwidth of the gateway and based on specific workflow needs, without having to purchase additional licenses.

KEY FEATURES AND BENEFITS

- **Purpose-built for StorNext environments** – G300 Gateway Appliances can be deployed in StorNext File System software environments and are compatible with the StorNext M330 and other StorNext metadata controllers
- **Ease of deployment and predictability** – Factory installed and licensed software for simplified deployments and out-of-the-box reliability and predictable performance
- **High-performance shared access** – High-performance data sharing and concurrent access by multiple users across the LAN
- **Ease of installation** – A Gateway conversion kit protects investment and eases transition between 1GbE and 10GbE network infrastructure
- **Ease of management** – Integrated monitoring provides graphical views of performance metrics for all connected Gateways, Clients and File Systems enabling optimal network utilization
- **World-class support from Quantum** – Customers have a single vendor experience from point of purchase to service and support from StorNext experts at Quantum

SYSTEM

CLIENT CONNECTIVITY

G301:	Gateway Appliance 1GbE Ethernet
G302:	Gateway Appliance 10GbE Ethernet Copper Twinax or Optical OM3 cabling options available

SAN CONNECTIVITY:
CLIENT THROUGHPUT

G301:	800MB/sec total per Gateway
G302:	1.6GB/sec total per Gateway

INCLUDES:

Gateway License
1X StorNext SAN Client License (Linux)
Rack rails and mounting hardware included
Conversion from G301 to G302 available

STORNEXT G301 GATEWAY SERVER SPECIFICATIONS

Processors:	2X E5620 2.4GHz CPU (4-core)
Memory:	6X 4GiB RAM memory modules (24GB, total)
Built-in 1GbE Ports:	2X (1 standard, 1 iDRAC)
1GbE NIC Ports:	8 (via 2X Quad Port)
FC NIC Ports:	2 8Gbps Fibre Channel ports
Internal Drive RAID Controller:	SAS RAID adapter for internal disks
Internal Drives:	2X 500GB SATA HDD (6 Gbps, 7.2K RPM, 3.5") configured as a 1+1 RAID-1 set
Power Supplies:	2X 750W Redundant
Cooling:	2X Redundant Fans

STORNEXT G302 GATEWAY SERVER SPECIFICATIONS

Processors:	2X E5620 2.4GHz CPU (4-core)
Memory:	6X 4GiB RAM memory modules (24GB, total)
Built-in 1GbE Ports:	2X (1 standard plugged/not used, 1 iDRAC)
1GbE NIC Ports:	2 (via 1X Dual Port)
10GbE Ports:	2 (via 1X Dual Port)
FC NIC Ports:	2 8Gbps Fibre Channel ports
Internal Drive RAID Controller:	SAS RAID adapter for internal disks
Internal Drives:	2X 500GB SATA HDD (6 Gbps, 7.2K RPM, 3.5") configured as a 1+1 RAID-1 set
Power Supplies:	2X 750W Redundant
Cooling:	2X Redundant Fans

ENVIRONMENTAL OPERATING CONDITIONS

Humidity:	20%-80% Non-condensing
Temperature °F (°C):	50° to 95° (10° to 35°) Max, 2,952.75ft (900m) Altitude 82.4° (24°) Max, 10,000ft (3048m) Altitude
Air Clearance:	Open 4 in. (10.2 cm) behind unit for proper air flow

POWER REQUIREMENTS

Supplied Power Cords:	Two 10ft (3m) North American NEMA 5-15P power cords Two 10ft (3m) European CEE 7/7 power cords Two 4ft (1.2m) NEMA C13 to C14 cables
Voltage:	100-240VAC
Frequency:	50-60Hz

PHYSICAL SPECIFICATIONS

Width (in/mm)	17.19/436.6
Depth (in/mm)	24/609.9
Height (in/mm)	3.4/86.4
Weight (lb/kg)	49.5/22.5

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

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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.