

StorNext G300 Gateway Appliance Site Planning Guide

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Product Overview

The StorNext G300 Gateway Appliance combines industry-proven Quantum hardware and StorNext software into one convenient, out-of-the-box solution. Your StorNext G300 system hardware has been pre-installed and is ready to operate with a minimum of additional configuration provided at time of installation. This guide provides basic installation and configuration instructions for the StorNext G300 Gateway Appliance.

Note: Make sure to take the online training for the StorNext G300 Gateway Appliance in order to make the best use of your product. The online training is available at www.quantum.com/ServiceandSupport/StorageCareLearning/Index.aspx

Included With Your StorNext G300 Gateway Appliance

The StorNext G300 Gateway Appliance is fully configured to your specifications and pre-tested in the factory. Every StorNext G300 Gateway Appliance configuration arrives with all necessary parts included. Each system comes with an accessory kit containing rack-mount hardware and ships with CentOS 6.x and StorNext Distributed LAN Server software installed.

Installation

Rack Compatibility

Nearly all standard four-post EIA 19" server racks are compatible with the StorNext G300 Gateway Appliance rack mount kits.

See [Physical Characteristics](#) on page 5 for system rack space requirements.

StorNext G300 Gateway Appliance Setup

After hardware has been installed and initially configured, you are ready to use your StorNext G300 Gateway Appliance.

Required Network Information

- DHCP (Dynamic Host Configuration Protocol) is not supported. You must provide a static IP address at the time of installation.
- The default IP Address is: **10.1.1.1**

Installation and Integration Services

Installation and integration of the StorNext G300 Gateway Appliance will be performed by Quantum Professional Services.

Phone support for the installation process is available via the Quantum support number for your area. Quantum World Wide phone support is as follows:

Americas:

800-284-5101 (toll free)

949-725-2100

Europe, Middle East and Africa:

00800-4-782-6886 (toll free)

+49 6131 3241 1164

Asia Pacific:

+800 7826 8887 (toll free)

+603 7953 3010

Service

StorNext G300 Gateway Appliance Warranty

The StorNext G300 gateway appliance's warranty includes one year of Quantum's Bronze Support Plan. This includes next business day on-site response, 5x9 telephone support, and on-line resources.

This warranty covers the StorNext G300 gateway Appliance and all drives, and includes firmware downloads, telephone support, and Internet access to Quantum's online Customer Support web site.

The Quantum Customer Support web site features online service request processing, Web-based event status tracking, and a comprehensive Knowledge Base. Quantum's Knowledge Base gives you 7x24 real-time electronic access to complete product and support resources and the expertise of Quantum's Global Services organization.

Service Package Upgrades

Quantum's Global Services organization is geared towards delivering the fastest possible response and root cause resolution, helping you maximize your backup investments, better manage processes, and make the best use of your resources. We ensure total customer satisfaction by providing comprehensive, responsive services on a worldwide basis.

A variety of support options are available to you via Quantum's tiered hardware support plans to meet a range of budget and availability requirements.

Quantum's Support Plans include:

- **Next Business Day Gold** – Next Business Day Onsite, 7x24 Phone Support
- **Gold** – 7x24x4 Hr on-site, 7x24 phone support
- **Customized Platinum** –. A Warranty extension of **Bronze** (5x9xNBD on-site, 5x9 phone support) is also an option for the second and third year of ownership.

Features of these plans include: 24-hour telephone support, on-site response, access to strategic account management (available with select service packages), priority call handling, strategically located spares parts, online resources, and software/firmware upgrades.

For more information on these service plans, please visit www.quantum.com or contact your Quantum Sales Representative.

Quantum service engineers are available around the world and are deployed to respond to on-site service demands. In addition, spare part depots are strategically located around the globe so that service technicians have access to the parts and equipment necessary to maintain or repair your StorNext G300 gateway appliance.

StorNext G300 Configurations

The StorNext G300 gateway appliance can be ordered in the following configurations (see [Table 1](#)).

Table 1 StorNext G300 Configurations

G300 Configuration	Available Ports		
Model G301	9 x 1 GbE Ethernet ports	2 x 8G Fibre Channel ports	
Model G302	2 x 10 GbE Ethernet ports	2 x 1 GbE Ethernet ports	2 x 8G Fibre Channel ports

StorNext G300 Shipping Information

The StorNext G300 is delivered in the following configuration (see [Table 2](#)).

Table 2 StorNext G300 Shipping Configurations

G300 Configuration	Quantity	Number of Shipping Boxes	Shipping Box Weight
StorNext G301	1	1	75 lbs (28 kg)
StorNext G302	1		

StorNext G300 Specifications

This section lists characteristics and specifications of the StorNext G300 gateway appliance. These characteristics and specifications are categorized as follows:

- [EMI Certification](#)
- [Physical Characteristics](#)
- [Environmental Specifications](#)

EMI Certification

This product is certified under the regulatory model name E19S.

Physical Characteristics

The following tables provide dimensions and other physical characteristics of the StorNext G300 Gateway Appliance system components:

- [Table 3 - Physical Characteristics](#)
- [Table 4 - Cable Drops](#)
- [Table 4 - Cable Drops](#)
- [Table 5 - Power Requirements](#)
- [Table 6 - Environmental Specifications](#)

Table 3 Physical Characteristics

Dimension	StorNext G300 Chassis
Height	3.40 in (8.6 cm)
Width (side to side)	17.19 in (43.6 cm)
Depth (front to back)	24.09 in (61 cm)
Weight (stand alone)	49.5 lbs (22.5 Kg)
Rack Space Required	2U
Air clearance	Open 4 in (10.2 cm) behind unit for proper air flow

Table 4 Cable Drops

StorNext G300 Cable Drops	
Ethernet Cable Drops	Gateway LAN Client direct Ethernet connections, Ethernet switch connections, and Ethernet connections for SAN metadata.
Power Outlets	System - 2 USA type 3-prong power outlets (Nema 5-15) or 2 C13 type 3-prong power outlets (IEC320 C13).

Table 5 Power Requirements

StorNext G300 Power Requirements		
Power Supplies and Cords		Two (2) hot swappable redundant power supplies Two (2) USA type 3-prong power cords with IEC320 C13 to Nema 5-15 connectors Two (2) C13 to C14 type 3-prong power cords with IEC320 C13 to IEC320 C14 connectors
Voltage		100–240 VAC
Frequency		50–60Hz
G301 and G302	Inrush	2.59A @ 100V 1.15A @ 240V
	Maximum	7.5A @100V 4.0A @ 240V 750W

Caution: To safeguard continuous operations in the event of a power outage, Quantum recommends that you connect the StorNext G300 gateway appliance to a UPS (uninterruptable power supply). Two circuits should be used (one per power supply).

Environmental Specifications

Table 6 provides various StorNext G300 gateway appliance environmental specifications.

Table 6 Environmental Specifications

Climatic Environment		
Temperature and Altitude	Operating	10 to 35 °C (50 to 95 °F) 35 °C Max, Altitude = 900 m or 2952.75 ft (28 °C Max, Altitude = 3048 m or 10,000 ft)
	Shipping and storage	-40 to 65 °C (-40 to 149 °F) up 12,000m (39,370 ft)
Relative humidity	Operating	20% to 80% (non-condensing)
	Shipping and storage	5% to 95% (non-condensing)
Vibration and Shock		
Operational Shock	Peak Acceleration	31G
	Duration	2.6 milliseconds
	Wave Shape	½ Sine
Operational Vibration	Mode	Random Vibration
	Frequency Range	5Hz–350Hz
	Amplitude	0.26Grms
	Application	Operational Orientations
Shipping and Storage	Mode	Random Vibration
	Frequency Range	10Hz–250Hz
	Amplitude	1.54 Grms
	Rate/Duration	(PSD can be provided) 15 minutes all operational orientations
Acoustic		
Acoustic output	Operating	< 67 dBA at 1 meter, room temperature (20C)
Agency Approvals		
Safety	IEC 60950-1, CSA 60950-1-03/UL 60950-1	
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	

Immunity	EN55024/KN24: EN 61000-3-2 - Harmonic current emissions test EN 61000-3-3 - Voltage fluctuations and flicker in low-voltage supply systems test EN 55024:1998 - Information technology equipment - Immunity characteristics - Limits and methods of measurements EN 61000-4-2 - Electrostatic discharge immunity test EN 61000-4-3 - Radiated, radio-frequency, electromagnetic field immunity test EN 61000-4-4 - Electrical fast transient/burst immunity test EN 61000-4-5 - Surge immunity test EN 61000-4-6 - Immunity to conducted disturbances, induced by radio-frequency fields EN 61000-4-8 - Power frequency magnetic field immunity test EN 61000-4-11 - Voltage dips, short interruptions and voltage variations immunity test
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For assistance, contact the Quantum Customer Support Center:

USA: **1-800-284-5101 (toll free) or +1-720-249-5700**
EMEA: **+800-7826-8888 (toll free) or +49-6131-3241-1164**
APAC: **+800-7826-8887 (toll free) or +603-7953-3010**
Worldwide: <http://www.quantum.com/ServiceandSupport>

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About Quantum

Quantum is a proven global expert in Data Protection and Big Data management, providing specialized storage solutions for physical, virtual and cloud environments. From small businesses to major enterprises, more than 50,000 customers trust Quantum to help maximize the value of their data by protecting and preserving it over its entire lifecycle. With Quantum, customers can Be Certain they're able to adapt in a changing world—keeping more data longer, bridging from today to tomorrow, and reducing costs. See how at www.quantum.com/BeCertain.