



G-Technology™

# G|RACK™ 12

DATASHEET



## High-Performance, Centralized Storage for Media and Entertainment Workflows

G-RACK™ 12 Network-Attached Storage (NAS) delivers the ultimate in high-performance, centralized storage for small-to-medium size post-production houses, TV/broadcast studios, ad agencies and in-house creative departments that use Adobe® Premiere® Pro, Apple® Final Cut Pro® X or Avid Media Composer®, and other popular creative applications.

G-RACK 12 brings G-Technology's reliability, scalability, and studio-friendly technology to centralized storage. Streamline demanding media and entertainment workflows of 4K and above with a flexible 12-Bay server offering up to 144TB; integration with popular non-linear editing (NLE) suites; the latest BTRfs file system for better data management; and up to 600TB of usable storage with the addition of G-RACK EXP Expansion Chassis units.<sup>1</sup>

G-RACK 12 is designed to work as a high-capacity storage resource for popular Media Asset Management (MAM) / Digital Asset Management (DAM) applications running on Windows® or Mac OS® servers. G-RACK 12 becomes an available storage resource via multiple network protocols including SMB, NFS, AFP, as well as utilizing iSCSI if needed. Pairing MAM/DAM applications with G-RACK 12 storage delivers a high-performance asset management solution.

### G-RACK 12 is the only centralized storage platform that combines:

- High-performance Network-Attached Storage (NAS)
- Scalable 12-Bay server from 48TB to 144TB capacities
- Ultra-reliable Enterprise-class HGST hard drives
- G-Technology developed NAS OS with easy to use interface
- Advanced BTRfs file system for reliable data protection
- iSCSI support for simplified shared storage management
- Integration with top non-linear editing suites
- Supports a full range of networking protocols including: AFP, SMB, CIFS, NFS, FTP, SSH, and iSCSI
- Optional 48TB, 72TB, 96TB, 120TB or 144TB Expansion Chassis
- Future-friendly platform for software add-ons
- 5-Year limited warranty





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SPECIFICATIONS	
Hard Disk Drive Bays	12
Disks	3.5" HGST Enterprise-class Drives
Data Transfer Rate	Up to 2000MB/s
RAID	User-configurable to RAID 5 or RAID 6 (Install wizard defaults to RAID 6)
Processors	Dual Intel® Xeon® E5 Haswell V3 6-Core (12 Cores Total)
Physical Memory	128GB
Network Ports <sup>2</sup>	4x 10GbE
Host Bus Adapter	2x 12Gbs mini-SAS ports
Power Supply	Dual 920W PSU (redundant)
System	G-RACK 12
Avg Standby (Watts)	14W
Peak Boot-up (Watts)	286W
Avg 100% Load of HDD fio stress test (Watts)	205W
Avg Idle (Watts)	184W
OS Drives	2x 1TB Rear Mounted 2.5" HDDs (mirrored)
Fans	3x 8cm Hot-Swap redundant PWM cooling fans
Client Operating Systems	Mac OS® 10.10 + Windows® 10, Windows 8.1, Windows 7
Unit (H x W x D)	3.5" x 19" x 25.6" (89 x 490 x 648mm)
Package (H x W x D)	14.19" x 26.5" x 34.56" (360 x 673 x 877.8 mm)
Weight	53lbs (24kg)

G-RACK 12 (SERVER)	
RAW Capacities	48TB, 72TB, 96TB, 120TB, 144TB
Usable Capacities (RAID 6)	40TB, 60TB, 80TB, 100TB, 120TB

BOX CONTENTS	
G-RACK 12 server including 12 bays with internal hard drives	
(2) Power cords	
(2) Bezel locking Keys	
Front bezel	
Rack rail kit	
Rail kit adapter	
Hardware QSG	
Software QSG	
5-Year limited warranty	

OPTIONAL G-RACK 12 EXP (EXPANSION CHASSIS)	
RAW Capacities	48TB, 72TB, 96TB, 120TB, 144TB
Usable Capacities (RAID 6)	40TB, 60TB, 80TB, 100TB, 120TB



DESCRIPTION	MODEL NUMBER	SKU	UPC
G-RACK 12 48TB 128GB RAM 4x10GbE NIC NA	GRKABBNF48TB12BDA	0G04920	705487202304
G-RACK 12 72TB 128GB RAM 4x10GbE NIC NA	GRKABBNF72TB12BDA	0G04921	705487202311
G-RACK 12 96TB 128GB RAM 4x10GbE NIC NA	GRKABBNF96TB12BDA	0G04922	705487202328
G-RACK 12 120TB 128GB RAM 4x10GbE NIC NA	GRKABBNF120TB12BDA	0G04923	705487202335
G-RACK 12 144TB 128GB RAM 4x10GbE NIC NA	GRKABBNF144TB12BDA	0G06003	705487206029
G-RACK 12 Expansion 48TB SAS NA	GRKEXPNB48TB12BDA	0G04924	705487202342
G-RACK 12 Expansion 72TB SAS NA	GRKEXPNB72TB12BDA	0G04925	705487202359
G-RACK 12 Expansion 96TB SAS NA	GRKEXPNB96TB12BDA	0G04926	705487202366
G-RACK 12 Expansion 120TB SAS NA	GRKEXPNB120TB12BDA	0G04927	705487202373
G-RACK 12 Expansion 144TB SAS NA	GRKEXPNB144TB12BDA	0G06004	705487206036
G-RACK 12 48TB 128GB RAM 4x10GbE NIC EMEA	GRKABBEF48TB12BDA	0G05179	705487203103
G-RACK 12 72TB 128GB RAM 4x10GbE NIC EMEA	GRKABBEF72TB12BDA	0G05180	705487203110
G-RACK 12 96TB 128GB RAM 4x10GbE NIC EMEA	GRKABBEF96TB12BDA	0G05181	705487203127
G-RACK 12 120TB 128GB RAM 4x10GbE NIC EMEA	GRKABBEF120TB12BDA	0G05182	705487203134
G-RACK 12 144TB 128GB RAM 4x10GbE NIC EMEA	GRKABBEF144TB12BDA	0G06005	705487206043
G-RACK 12 Expansion 48TB SAS EMEA	GRKEXPB48TB12BDA	0G05183	705487203141
G-RACK 12 Expansion 72TB SAS EMEA	GRKEXPB72TB12BDA	0G05184	705487203158
G-RACK 12 Expansion 96TB SAS EMEA	GRKEXPB96TB12BDA	0G05185	705487203165
G-RACK 12 Expansion 120TB SAS EMEA	GRKEXPB120TB12BDA	0G05186	705487203172
G-RACK 12 Expansion 144TB SAS EMEA	GRKEXPB144TB12BDA	0G06006	705487206050
G-RACK 12 FRU Spare Parts Kit Main NA	GRKUNFRUP1990A	0G04933	705487203318
G-RACK 12 FRU Spare Parts Kit Expansion NA	GRKUNFRUP1999A	0G04934	705487203325
G-RACK 12 Module Drive 4TB WW	GRKUNFRU00400A	0G04938	705487203332
G-RACK 12 Module Drive 6TB WW	GRKUNFRU00600A	0G04939	705487203349
G-RACK 12 Module Drive 8TB WW	GRKUNFRU00800A	0G04940	705487203356
G-RACK 12 Module Drive 10TB WW	GRKUNFRU01000A	0G04941	705487203363
G-RACK 12 Module Drive 12TB WW	GRKUNFRU01200A	0G06007	705487206067
G-RACK 12 FRU Module Drive 1TB WW	GRKUNFRU00100A	0G04942	705487203370
G-RACK 12 Expansion Card 2x 10GbE NIC	GRKUNFRUM6400A	0G04955	705487203448
G-RACK 12 Expansion Card 2x 10GbE NIC SFP+	GRKWNIC2X10GSPFAA	0G05189	705487203455

<sup>1</sup> 600TB of usable storage achieved with one G-RACK 12 144TB server plus four G-RACK EXP 144TB Expansion Chassis units. RAID sets are limited to 28 drives. <sup>2</sup> Optional network adapters available  
 One GB is equal to one billion bytes and one TB equals 1,000 GB (one trillion bytes) when referring to hard drive capacity. Accessible capacity will vary from the stated capacity due to formatting and partitioning of the hard drive, the computer's operating system, and other factors.

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