



G-Technology™

G|RACK™ 12

DATASHEET



High-Performance, Centralised 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 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 120TB; integration with popular non-linear editing (NLE) suites; the latest BTRfs file system for better data management; and up to 500TB of usable storage with the addition of G-RACK EXP Expansion Chassis units.¹

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

- High-performance Network-Attached Storage (NAS)
- Scalable 12-Bay server from 48TB to 120TB 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 or 120TB Expansion Chassis
- Future-friendly platform for software add-ons
- 5-Year limited warranty





G-Technology™

G|RACK™ 12

DATASHEET

| SPECIFICATIONS | |
|--|---|
| Hard Disk Drive Bays | 12 |
| Disks | 3.5" HGST Enterprise Drives |
| Data Transfer Rate | Up to 2000MB/s |
| Processors | Dual Intel® Xeon® E5 Haswell V3 6-Core (12 Cores Total) |
| Physical Memory | 128GB |
| Network Ports ² | 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) |
| Server Package (H x W x D) | 9.7" x 24" x 28" (246.4 x 609.6 x 711.2mm) |
| HDD Package (H x W x D) | 17.5" x 13.25" x 10.5" (444.5 x 336.6 x 266.7mm) |
| Weight | 53lbs (24kg) |

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

| 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 |
| Usable Capacities (RAID 6) | 40TB, 60TB, 80TB, 100TB |



| 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 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 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 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 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 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+ | GRKWNIC2X10GSFPAA | 0G05189 | 705487203455 |

¹ 500TB of usable storage achieved with one G-RACK 12 120TB server plus four G-RACK EXP 120TB Expansion Chassis units. RAID sets are limited to 28 drives. ² 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.

G-Technology and the G-Technology logo are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the US and/or other countries. Apple, Mac and the Mac logo are trademarks of Apple, Inc. Microsoft, Windows, Windows Vista and Windows XP are trademarks or registered trademarks of Microsoft Corporation in the US and/or other countries. Other trademarks may be the property of their respective owners. ©2016 Western Digital Corporation or its affiliates. R5 11/16

