



# HGST Ultrastar® He12

Laying the foundation for a worry-free data center, HGST delivers capacity to conquer the data explosion – Ultrastar® He12 HDD. Designed to handle workloads up to 550TB per year, the Ultrastar He12 HDD is the industry's first 12TB drive and uses PMR technology to make it drop-in ready for any enterprise-capacity application or environment. The stable internal environment created by fourth-generation HelioSeal® technology enables a new 8-disk design, increasing the capacity by 20% when compared to the 7-disk design of the prior generation. This highest capacity helium drive offers the lowest power profile in the industry to help data center architects meet eco-environmental goals and requirements. Targeted at 2.5M hours MTBF, the Ultrastar He12 HDD provides the highest reliability rating available of all HDDs on the market today by building on the successful design of its 10TB, 8TB and 6TB predecessors. Trust HGST and the Ultrastar He12 HDD to deliver more capacity, more efficiency, more reliability and more value to your data center.

## Storage systems

AIC RSC-2ET0	HGST tested
<a href="#">AIC RSC-3EG2-80R</a>	HGST tested
<a href="#">AIC RSC-3EH</a>	HGST tested
<a href="#">CIDesign NSR316</a>	HGST tested
<a href="#">Chenbro RM31616</a>	HGST tested
NEWISYS NDS-3160JD	HGST tested
<a href="#">Supermicro SC836TQ</a>	HGST tested

## Host Bus Adapters

<a href="#">ATTO ExpressSAS H608</a>	HGST tested
<a href="#">ATTO ExpressSAS H680</a>	HGST tested
<a href="#">ATTO H1208</a>	HGST tested
<a href="#">Adaptec 1000</a>	HGST tested
<a href="#">Adaptec 6405H / 6805H</a>	HGST tested
<a href="#">Adaptec 71605He and 70165He with maxCrypto</a>	HGST tested
<a href="#">Adaptec 7805H / 7085H / 71605H / 70165H</a>	HGST tested
Intel RES3TV360	HGST tested
Intel RMS3HCo80	HGST tested
Intel RMS3JCo80	HGST tested
Intel RMS3VC160	HGST tested
Intel RS3UCo80J	HGST tested
Intel RS3WCo80	HGST tested
<a href="#">LSI 9211-8e</a>	HGST tested
LSI 9305-16e	HGST tested



# HGST Ultrastar® He12

## Host Bus Adapters continued

LSI 9305-16i	HGST tested
LSI 9305-24i	HGST tested
LSI SAS 9205-8e	HGST tested
LSI SAS 9207-4i4e	HGST tested
LSI SAS 9207-8e	HGST tested
LSI SAS 9207-8i	HGST tested
LSI SAS 9300-4i	HGST tested
LSI SAS 9300-4i4e	HGST tested
LSI SAS 9300-8e	HGST tested
LSI SAS 9300-8i	HGST tested

## RAID Controllers

ATTO ExpressSAS H644	HGST tested
ATTO ExpressSAS R608	HGST tested
ATTO ExpressSAS R644	HGST tested
ATTO ExpressSAS R680	HGST tested
Adaptec Adaptec RAID 8885Q with maxCache 3.0	HGST tested
Adaptec RAID 6405 / 6445 / 6805 / 6405T / 6805T	HGST tested
Adaptec RAID 6805Q and 6805TQ with maxCache 2.0	HGST tested
Adaptec RAID 71605E	HGST tested
Adaptec RAID 7805 / 71605 / 71685 / 78165 / 72405	HGST tested
Adaptec RAID 81605ZQ with maxCache 3.0	HGST tested
Adaptec RAID 8885 / 8805 / 8405	HGST tested
Areca ARC-1882i / 1882x / 1882LP / 1882ix-12/16/24	HGST tested
Areca ARC-1883i	HGST tested
Avago MegaRAID SAS 9260-16i	HGST tested
Avago MegaRAID SAS 9260-4i	HGST tested
Avago MegaRAID SAS 9260-8i / 9260DE-8i	HGST tested
Avago MegaRAID SAS 9260CV-4i	HGST tested
Avago MegaRAID SAS 9260CV-8i	HGST tested
Avago MegaRAID SAS 9261-8i	HGST tested
Avago MegaRAID SAS 9265-8i	HGST tested
Avago MegaRAID SAS 9266-4i	HGST tested
Avago MegaRAID SAS 9280-16i4e	HGST tested
Avago MegaRAID SAS 9280-24i4e	HGST tested
Avago MegaRAID SAS 9280-4i4e	HGST tested
Avago MegaRAID SAS 9280-8e / 9280DE-8e	HGST tested
Avago MegaRAID SAS 9285-8e	HGST tested
Avago MegaRAID SAS 9341-8i	HGST tested
Intel RMS3AC160	HGST tested



# HGST Ultrastar® He12

## RAID Controllers continued

Intel RMS3CCo40	HGST tested
Intel RMS3CCo80	HGST tested
Intel RS25ABo80	HGST tested
Intel RS25DBo80	HGST tested
Intel RS25NB0o8	HGST tested
Intel RS25SBoo8	HGST tested
Intel RS2BLo40	HGST tested
Intel RS2BLo80	HGST tested
Intel RS2BLo80DE	HGST tested
Intel RS2BLo80SNGL	HGST tested
Intel RS2MBo44	HGST tested
Intel RS2PIoo8DE	HGST tested
Intel RS2SG244SNGL	HGST tested
Intel RS2VBo40	HGST tested
Intel RS2VBo80	HGST tested
Intel RS2WCo40	HGST tested
Intel RS2WCo80	HGST tested
Intel RS2WG160	HGST tested
Intel RS3DCo40	HGST tested
Intel RS3DCo80	HGST tested
Intel RS3FCo44	HGST tested
Intel RS3GCoo8	HGST tested
Intel RS3MCo44	HGST tested
Intel RS3SCoo8	HGST tested
Intel RS3UCo80	HGST tested
LSI 2108	HGST tested
LSI 2208	HGST tested
LSI 3008	HGST tested
LSI 3108	HGST tested
LSI LSI MegaRaid 9361-8i	HGST tested
LSI MegaRAID 9240-8i	HGST tested
LSI MegaRAID SAS 9240-4i	HGST tested
LSI SAS 2008	HGST tested
LSI SAS 2308	HGST tested
LSI SAS 9211-4i	HGST tested
LSI SAS 9211-8i	HGST tested
LSI SAS 9212-4i4e	HGST tested
LSI SAS 9285CV-8e	HGST tested
LSI Syncro CS 9271-8i	HGST tested
LSI Syncro CS 9286-8e	HGST tested
Marvell 88SE9485/9445, 88RC9580, 88SE64xx (IC)	HGST tested



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## RAID Controllers continued

<a href="#">PMC-Sierra PM8001 SPC 8x6G</a>	HGST tested
PMC-Sierra PM8013	HGST tested
PMC-Sierra PM8015	HGST tested
PMC-Sierra PM8019	HGST tested
PMC-Sierra PM8063	HGST tested

## Operating systems

<a href="#">CentOS 6.6</a>	HGST tested
<a href="#">CentOS CentOS 7.0</a>	HGST tested
<a href="#">Microsoft Windows Server 2012 R2 64-bit</a>	HGST tested
Microsoft Windows Server 2016	HGST tested
<a href="#">Red Hat Enterprise Linux 6.0</a>	HGST tested
Red Hat Enterprise Linux 7	HGST tested
<a href="#">SUSE Linux Enterprise Server 11</a>	HGST tested
<a href="#">SUSE Linux Enterprise Server 12.1</a>	HGST tested

## I/O Processor

LSI 3216/3224	HGST tested
PMC-Sierra PM8018	HGST tested
PMC-Sierra PM8069	HGST tested
PMC-Sierra PM8070	HGST tested
PMC-Sierra PM8072	HGST tested

## Expanders

<a href="#">LSI LSISAS2X24</a>	HGST tested
<a href="#">LSI LSISAS2X28</a>	HGST tested
<a href="#">LSI LSISAS2X36</a>	HGST tested
<a href="#">LSI LSISAS3X36</a>	HGST tested
<a href="#">LSI LSISAS3X40</a>	HGST tested
<a href="#">LSI LSISAS3X48</a>	HGST tested
<a href="#">PMC-Sierra PM8004 SXP 24x6Gsec</a>	HGST tested
<a href="#">PMC-Sierra PM8005 SXP 36x6GSec</a>	HGST tested
PMC-Sierra PM8043	HGST tested
PMC-Sierra PM8044	HGST tested
PMC-Sierra PM8053	HGST tested
PMC-Sierra PM8054	HGST tested
PMC-Sierra PM8055	HGST tested
PMC-Sierra PM8056	HGST tested



# HGST Ultrastar® He12

## Expanders continued

PMC-Sierra PM8057

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## Server chassis

Supermicro SC825TQ

HGST tested

Supermicro SC826E26

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Supermicro SC836A

HGST tested

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Supermicro SC826BE1C

HGST tested

## Server systems

TST ESR-316

HGST tested



The HGST Integration Lab tested these HGST products for compatibility with a wide variety of systems, host bus adapters, enclosures, operating systems, etc. Testing was performed to demonstrate compatibility with the following hardware and software. Other combinations of hardware and software are expected to function with this product family, but have not been evaluated. This compatibility testing confirms simply that the hard drive was recognized, partitioned and then data was written to and read from it. Drive capacity and interface speed are not always verified during compatibility testing. HGST always tests the highest capacity drive per product family, yet for the specific model and firmware versions tested please contact your sales or technical representative. HGST recommends you back up all data before installing your new hard drive.

Partner tested products were HGST products confirmed to function properly with the specific partner systems, host bus adapters, enclosures, operating systems, etc. For the details of the test please contact specific Partner. Product specifications provided do not constitute a warranty. Information is true as of the date of publication and is subject to change. Actual specifications for unique part numbers may vary.

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Published in the United States. All rights reserved. Capacity notice: 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. Ultrastar is a registered trademark of HGST, Inc. and its affiliates in the United States and/or other countries. HGST trademarks are authorized for use in countries and jurisdictions in which HGST has the right to use, market and advertise the brands. HGST shall not be liable to third parties for unauthorized use of HGST trademarks. Western Digital, WD, and the WD logo are registered trademarks of Western Digital Technologies, Inc. All other trademarks are the property of their respective owners. References in this publication to HGST products, programs, or services do not imply that HGST intends to make these available in all countries in which it operates. Some countries have laws that may affect encryption-enabled devices. HGST assumes no responsibility for compliance with laws that apply to our products after they are sold or outside of our control. Accordingly, we suggest that you review all laws of the countries where you conduct business. Product compatibility is provided for informational purposes only and does not constitute a warranty. Individual results may vary and each user is responsible for confirming its own requirements. Please visit the Support section of our website, [www.hgst.com/support](http://www.hgst.com/support), for additional information on product specifications.