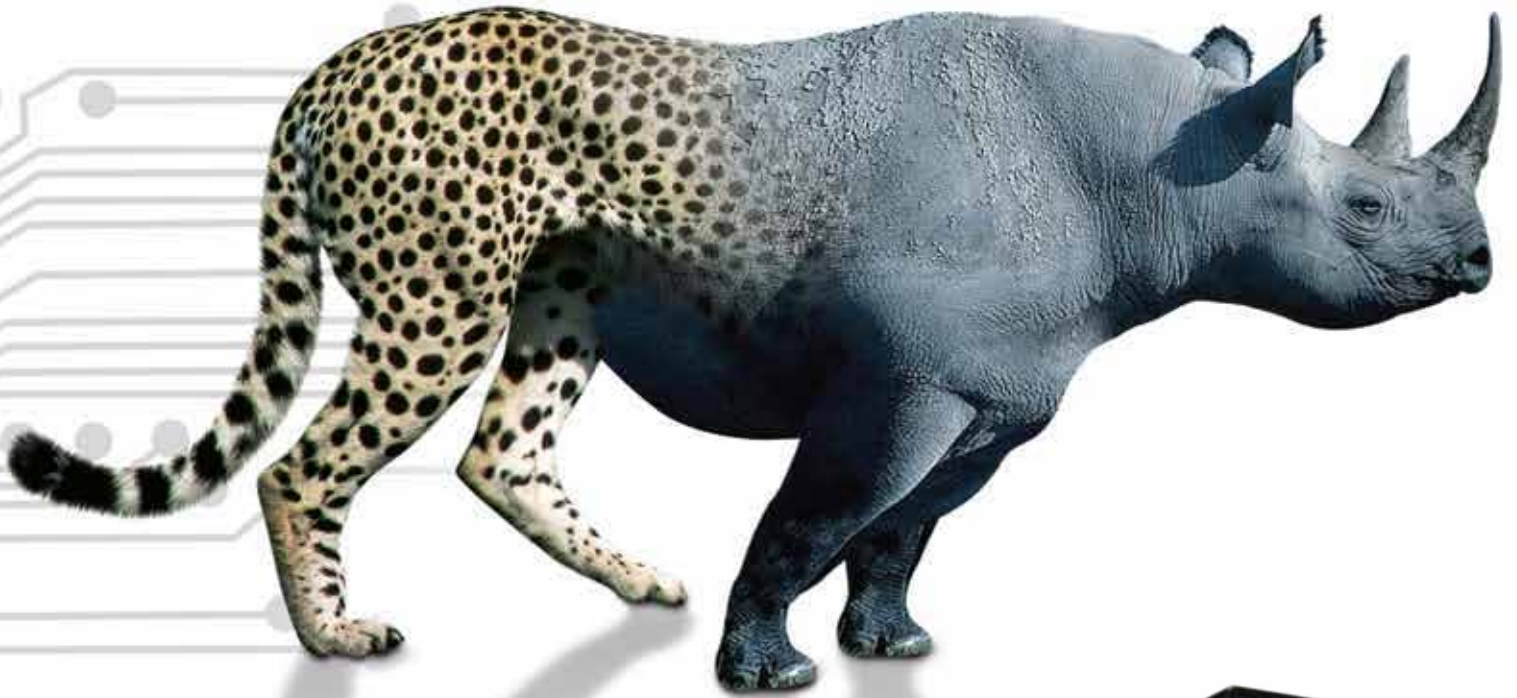


SUPER FAST & BUILT TO LAST

Removable Hard Disk Drives (HDD) and Drive Arrays



VANGUARD 
RUGGED STORAGE

HARD DISK (SPINNING) DRIVES

Vanguard Removable HDD Products include the entire range of State of the Art Disk Drive Technology from industry leaders Seagate and Western Digital. Many removable drives are available with FIPS 140-2 certification for high security applications.

Interfaces: SATA, SAS, USB3, SCSI Ultra-160, PATA
Capacity: 146 GBytes to 30 TBytes
Sustained Data Rates: SATA: 249 MBps, SAS: 315 MBps
Self Encryption: AES 256 bit Encryption Available
Certification: FIPS 140-2, Level 2 Available.

Cooling Options: Air Cooled, Conduction Cooled
Temp Ranges: 5 to 55 C, 0 to 60C
Form Factors: Table below
Custom Form Factors: Available
Data Destruction: Cryptographic Erase Available

A USB3 interface desktop docking bay is available for SATA Drives. This makes it easy to connect drives removed from embedded systems to any computer with a USB port. Moving data for analysis is easy and convenient.

146
GBytes



3-1/2 DD Drive
Hermetically Sealed
Air Cooled



3-1/2 SDD Drive
Air Cooled

3-1/2 DD Drive
Air Cooled



3-1/2 DD Drive
Conduction Cooled

3-1/2 SDD
Slim Drive Array



3-1/2 HH Drive Array
Air Cooled



5-1/4 HH Drive or Drive Array
Air Cooled

Custom
Form Factors



5-1/4 SHH Drive
Air Cooled



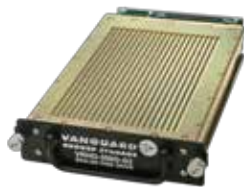
5-1/4 HH Drive or Drive
Array Air Cooled
Shock Isolated



5-1/4 FH Drive Array
Air Cooled Shock Isolated



5-1/4 FH Drive Array
Air Cooled Shock
Isolated (up to 30 TB)



5-1/4 HH Drive
Hermetically
Sealed Air Cooled



3-1/2 SDD Drive
Air or Conduction
Cooled



USB3 Desktop
Docking Bay

30
TBytes

3-1/2 DD = 3-1/2" Disk Drive Form Factor (1" H x 4" W)
 3-1/2 SDD = 3-1/2" Slim Disk Drive Form Factor (.5" H x 4" W)
 3-1/2 HH = 3-1/2" Half Height Form Factor (1.63" H x 4" W)

5-1/4 HH = 5-1/4" Half Height Form Factor (1.63" H x 5.75" W)
 5-1/4 SHH = 5-1/4" Slim Half Height Form Factor (1" H x 5.75" W)
 5-1/4 FH = 5-1/4" Full Height Form Factor (3.25" H x 5.75" W)

1) Maximum Rates for Sequential, Unformatted Data, for Commercial Temp Drives. Test values measured using Iometer (Iometer.org). Formatted data rates will be lower. Random data rates will be lower. Data Rates for Industrial Temp drives (-40 to +85 C will be lower).

Specifications Subject to Change Without Notice