

Document: Complete List of 85 SSD Manufacturers in the World

By Jean-Jacques Maleval, Tue, June 14th, 2011

For maybe soon only three for HDDs

Making a solid-state disk drive is much easier than manufacturing a magnetic hard disk drive. Mainly, you just have to buy flash chips from companies like Samsung or Toshiba, and to assemble them with a controller from your own design or acquiring it from an outside company (Marvell, SandForce, IDT, etc).

It's not a lot of investment and that's why many small Asian firms entered into this activity. The key differentiators are not the chips, available from several sources and evolving in parallel, always smaller and smaller. The main component is the controller, each one using different algorithms to manage the complex way of reading and above all writing flash chips.

Today the four most popular units are:

- High-end enterprise SAS SLC
- 2.5-inch 6Gb SAS MLC
- Faster PCIe or Mini PCIe MLC, and
- Much smaller embedded MLC devices for tablets and mobile devices.

We have counted today 85 firms assembling SSDs in the world, not including controllers manufacturers like SandForce (that has plenty of OEMs, most of them in our list of SSD makers: Adata, AMP, Corsair, Digicube, G.Skill, Phoenix, Kingston, Mach Xtreme Technology, Mushkin, OCZ, OWC, Patriot, RunCore, Unigen, Smart Modular Technologies, Solidata, Soligen, Super Talent, Viking Modular Solutions), and others (Anobit, IDT, LSI, Marvell, Phison Electronics, Silicon Motion Technology, etc.).

Manufacturing HDDs needs much more investment, in hundreds of millions of dollars (clean rooms, robotics, lot of employees, etc.). At a time there was hundred of acytos. Now they are five and this number could reach only three (Seagate, Toshiba, WD) in the future if Seagate and WD get regulatory approvals in Europe as well as in USA for their acquisition, respectively Samsung HDD and Hitachi GST. Nobody is

going to enter in this activity because the price is too high, the future of the market is not guaranteed, and all the patents are in the hands of current manufacturers.

SSD Manufacturers (with their known OEMs in parenthesis)

- [ADATA](#) (Asus)
- [Active Media](#)
- [Adlink Technology](#)
- [Anobit](#)
- [Apacer Technology](#)
- [APRO](#)
- [Asax/Shenzhen Hugetech Electronic Technology Development](#)
- [BiTMICRO Networks](#)
- [Buffalo Technology](#)
- [Cactus Technologies](#)
- [CoreSolid Storage](#)
- [Corsair Memory](#)
- [Delkin Devices](#)
- [Dolphin ICS](#)
- [Elecom](#)
- [Extreme Engineering Solutions](#)
- [Foremay](#)
- [Fusion-io](#) (HP, IBM, Dell, StoneFly, Supermicro)
- [G.Skill](#)
- [Galaxy Data Storage](#)
- [Greenliant Systems](#)
- [Hagiwara Sys-Com](#)
- [Hitachi GST](#)
- [IEI Technology](#)
- [Imation](#)
- [InnoDisk](#)
- [Intel](#) (Adata, Adaptec, Hitachi GST (to jointly develop SSDs), Kingston, LSI, Pillar Data, Sun, Panasas, Schooner Information Technology, Synology)
- [Kingmax Technology](#)
- [KingFast](#)
- [KingSpec](#)
- [Kingston Digital](#)
- [Lexar Media](#)
- [Lite-On IT](#)
- [LSI](#)
- [Mach Xtreme Technology](#)
- [Macrotron Systems](#)
- [Memocom](#)
- [MemoRight](#)

- [Microship/SST](#)
- [Micron](#)
- [Microsemi](#)
- [Micross Components/Austin Semiconductor](#)
- [Most I&T Afaya](#)
- [Mosaid Technologies](#)
- [Mtron](#) (Imation)
- [Mushkin](#)
- [Myung Information Technologies](#)
- [Netlist](#)
- [OCZ Technology](#) (SGI)
- [OWC](#)
- [Patriot Memory](#)
- [PhotoFast](#)
- [Plextor](#)
- [Pliant Technology](#) acquired by SanDisk (Dell, LSI, Teradata)
- [PNY Technologies](#)
- [PQI](#)
- [Pretec](#)
- [pureSilicon](#)
- [Ritek/Ridata](#)
- [RunCore](#)
- [Samsung](#) (Adata, Dell/EqualLogic, EMC, Fusion-io, G Skill, HP, Kingston, Lenovo, Oracle/Sun, Patriot Memory, Silicon Power, STEC, Super Talent, TeamGroup, Trend Link)
- [SanDisk](#)
- [Seagate Technology](#)
- [Silicon-Power](#)
- [Smart Modular Technologies](#) (IBM, Xiotech)
- [Solid Access](#)
- [Solidata](#)
- [Ketrion/Starex](#)
- [Stec](#) (HP/3par, HP/Compellent, Dot Hill, HP, EMC, Fujitsu, HDS, IBM, IceWEB, Infortrend, EMC/Isilon, LSI, NEC, NetApp, Oracle/Sun)
- [Super Talent](#)
- [Targa Systems](#)
- [TDK](#)
- [Team Group](#)
- [Texas Memory Systems](#) (IBM, NetApp)
- [Toshiba](#) (Oracle/Sun, Texas Memory)
- [Transcend Information](#) (Synology)
- [Trident Space & Defense](#)
- [Unigen](#)
- [Verbatim](#)

- [Viking Modular Solutions](#)
- [Virident Systems](#)
- [Walton Chaintech](#)
- [WD](#)
- [X-ES](#)