

## **Accelerating K8 architecture to the mainstream Introducing SiS 761GX Chipset**

While AMD is phasing out the K7 (Athlon™/Athlon™ XP) architecture in 2005, K8 architecture is AMD's top to bottom solution to the market. Having single architecture in the market is definitely a good move for AMD, lessen the confusion of end users, while let the chipset manufacturers more focus on their K8 products.

### **SiS761GX – Leading to the mainstream**

SiS is one of the leading chipset manufacturers in the world, to leverage SiS' experience in making cost effective and stable chipset, AMD surely can bring the K8 architecture into the mainstream market without much problem.

SiS761GX is the SiS' answer to the market, by supporting the latest technologies and having very flexible design, motherboard manufacturers can design their products with a lot of innovations to different market.

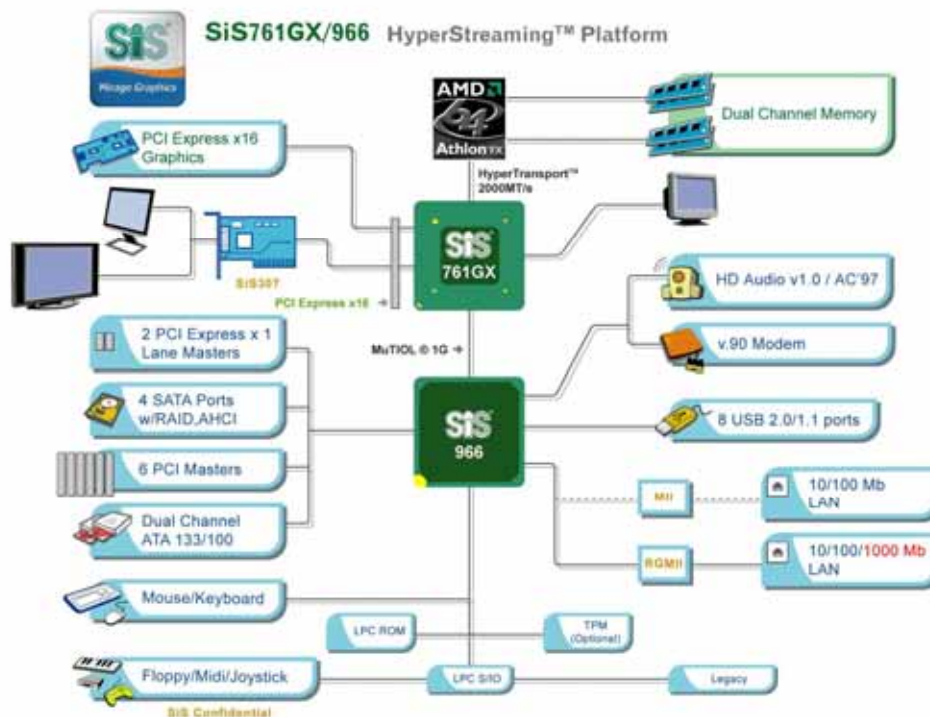
Thanks to AMD's HyperTransport™ Technology design, SiS761GX supports the all AMD K8 architecture processors, including entry level Sempron™, all the way up to Athlon™ 64 X2 , Athlon™ 64 FX, and even Opteron™ processors, which feature with the fastest 2000MT/s data rate.



### **Integrated Graphics design**

SiS 761GX is an integrated graphics chipset solution for AMD's K8 architecture to deliver the most cost-effective PC system. The integrated Mirage™ 1 graphics engine, well provide users for their daily office work and home entertainment. To maintain a cost-effective PC system, SiS761GX adopts the UMA design, means the graphics core will share the memory with the whole system.

By supporting PCI Express x16 interface, the maximum bandwidth for graphics will be up to 4GB/s each direction, a 4-times higher bandwidth than the aging AGP interface. Although users who ever want to have a latest graphics solutions can choose any PCI Express graphics card in the market, that's a even better solution than having a mid level integrated graphics core, as users usually look for a decent graphics solutions for gaming, integrated graphics core is by no mean close to that, at this point of time. PCI Express graphics not only provides a better performance than integrated graphics solutions, but also it's going to replace the aging AGP interface.



### Flexible South Bridge Solution

SiS761GX can incorporate several SiS's south bridge for different I/O features, like SiS965 and SiS966, both of them connects the northbridge chipsets by using the proprietary MuTIOL® 1G connection. The MuTIOL® 1G is a bi-directional 16 bit bus running at 533MHz. The latest SiS966 south bridge supports 2 PCI Express x1 lanes, two SATA II ports in addition to two SATA 1.0 ports, with RAID 0, 1, 0+1 and JBOD feature. Other standard features like 8 USB 2.0 ports, 10/100/1000 LAN support, 6 PCI Master buses, dual IDE channels etc.

Two things worth to note about the SiS966, one is the HD Audio support, which means it supports up to 192kHz sampling frequency, 7.1 surround sound output, advanced input/output settings, like having two different streams of audio to speakers

and headphone. SiS966 is so flexible that it can also support AC'97 v2.3, means if the motherboard manufacturers want to use a simple design, they can still use an AC'97 codec on the motherboard.

The other point to note is the efficiency of Gb LAN interface. Benchmark shows that the build in Gb LAN interface of SiS966 has a better bandwidth than stand alone PCI Express Gb LAN Card, that means there's no need for users to purchase another Gb LAN card any more.

All in all, SiS 761GX provides all necessary features to address mainstream user's need, while maintaining a very good performance and attractive price point. With long experience with SiS chipset solutions, stability and compatibility is not going to be any issue for us.