

AMD64 Dual-Core Design Elegance

AMD64 designed from the ground up for multiple cores

- True dual-core, with two CPU cores on one die
- Inter-core communication at processor speed
- Direct Connect Architecture allows access via crossbar to memory controller and HyperTransport™ technology link

Designed for existing 939 infrastructure

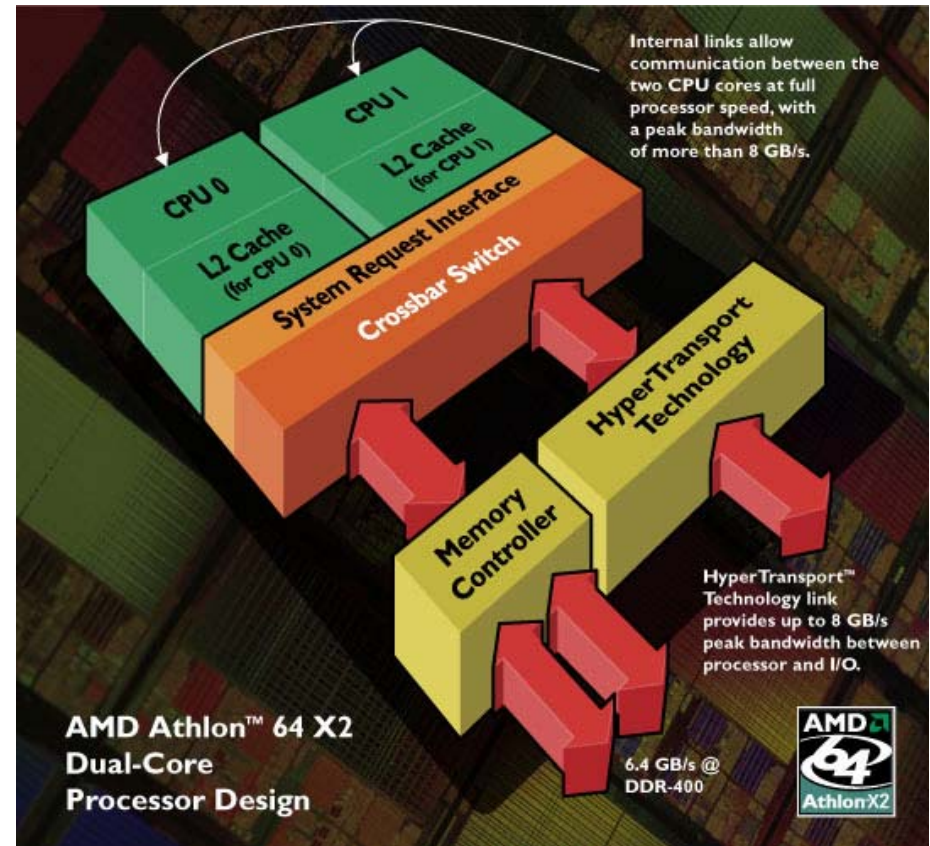
- Requires only BIOS update
- Standard heat sinks and power

Advanced features of AMD64 technology

- Enhanced Virus Protection*
- Cool'n'Quiet™ technology

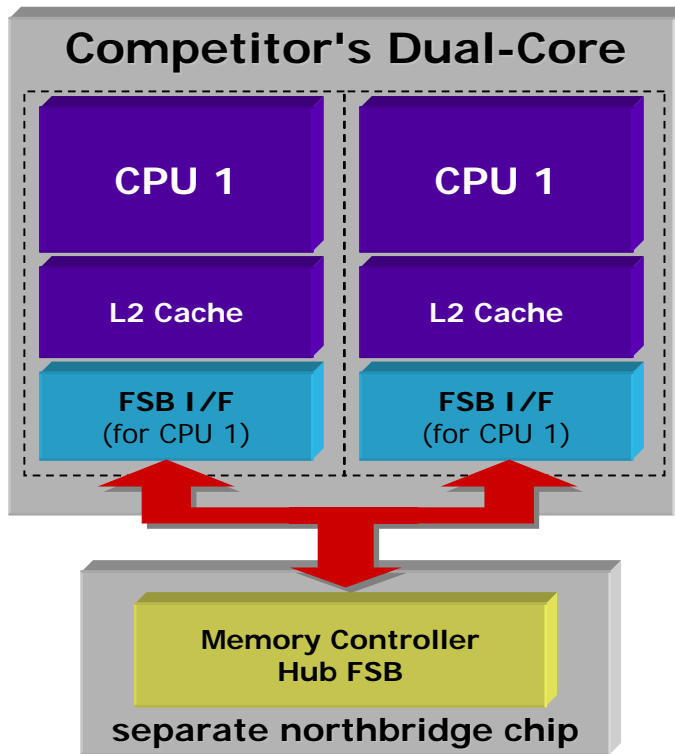
Dual-core benefits available on today's software with no changes

- Microsoft® Windows® XP Home & Professional Editions
- All current versions of Linux

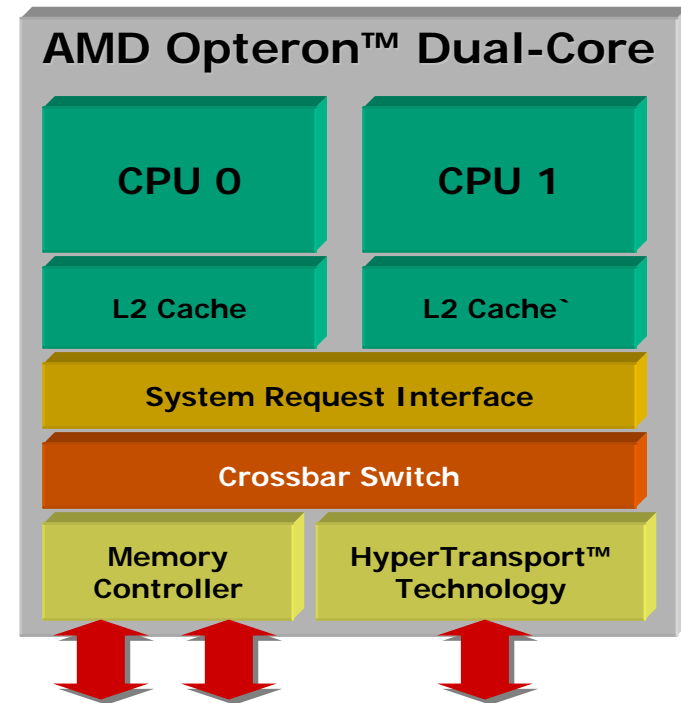


* Enhanced Virus Protection (EVP) is only enabled by certain operating systems including the current versions of Microsoft® Windows®, Linux, Solaris and BSD Unix. After properly installing the appropriate operating system release, users must enable the protection of their applications and associated files from buffer overrun attacks. Consult your OS documentation for information on enabling EVP. Contact your application software vendor for information regarding use of the application in conjunction with EVP. AMD and its partners strongly recommend that users continue to use third party anti-virus software as part of their security strategy.

Competitive Comparison

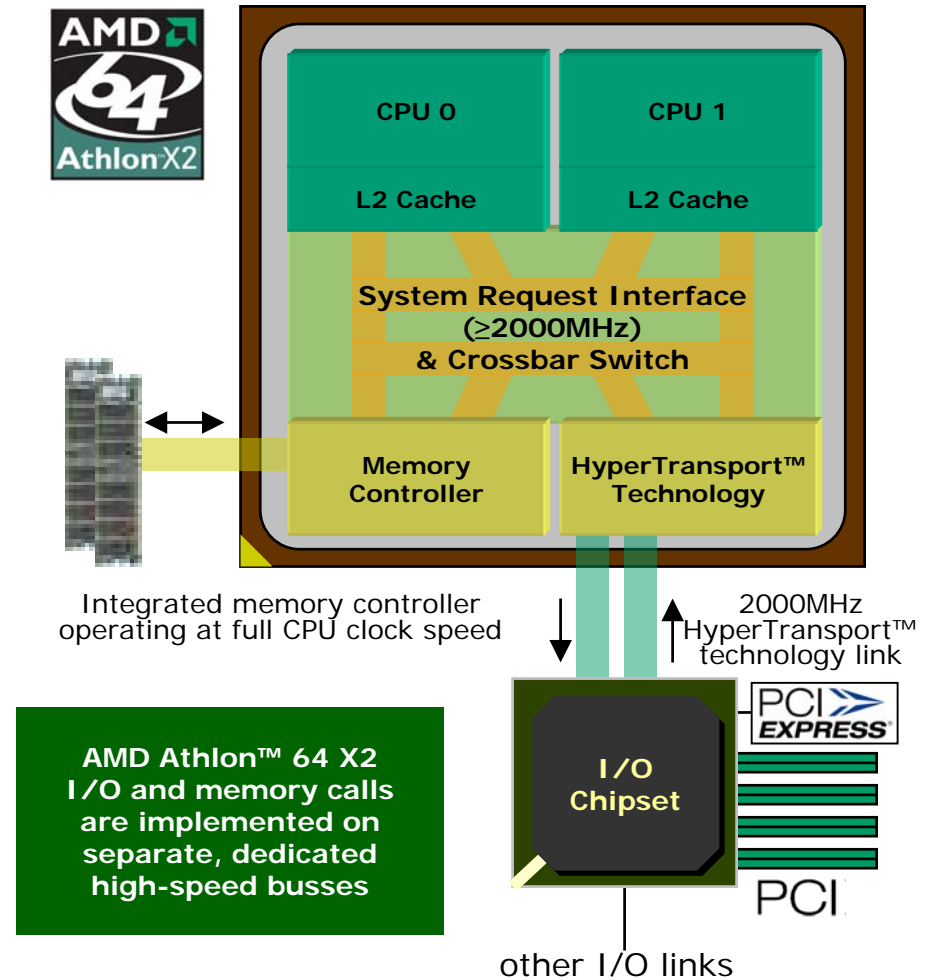
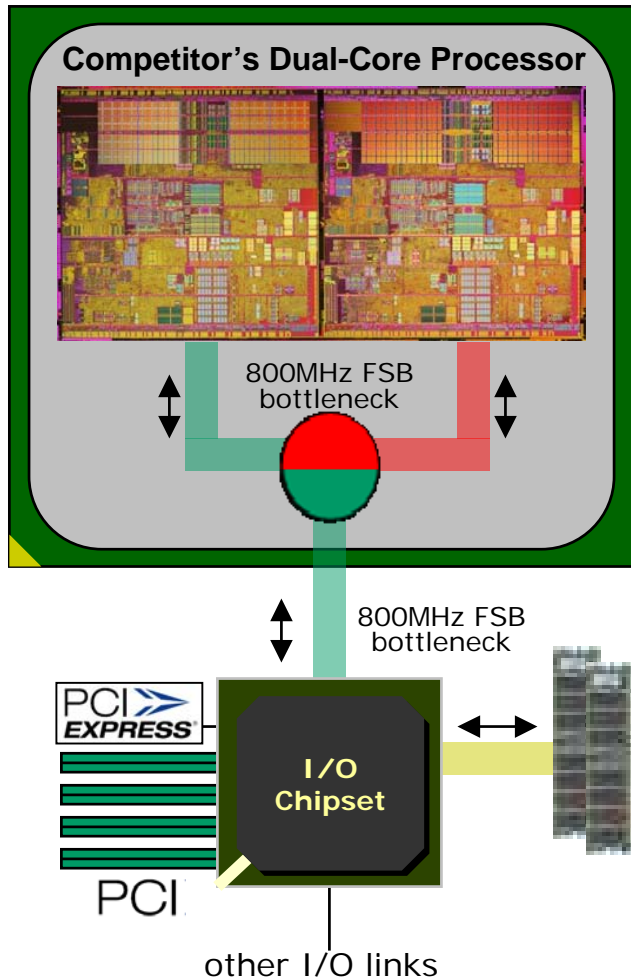


- Requires new chipset and motherboards to implement
- 119A/125W+ TDP adds cost to board & cooling solution
- Separate cores connected only by FSB means bandwidth constraints & lower performance
 - 6.4GB/s total bandwidth



- Only requires BIOS update for most 939 motherboards
- 80A/110W TPD means no added costs
- Integrated dual-core design means high speed, high performance CPU
 - More than 22GB/s total bandwidth

Dual-Core Architecture Comparison



Dual-Core Architecture Comparison

