

AES-Mach 1.0

Data presented in KB/s. Values presented in SI standard, (1 KB = 1000 B)

Length of the key in bits	Standard encryption	Accelerated encryption	Standard decryption	Accelerated decryption
128	9 MB/s	19 GB/s *	9 MB/s	25 MB/s *
256	2 MB/s	19 GB/s *	2 MB/s	31 MB/s *

Software specifications used for testing:

- Win XP Pro 32-bit with SP2

Hardware specifications used for testing:

- Motherboard – Tyan Thunder i7525 S2676 UANRF
- CPU – dual Xeon 3.6 GHz 1MB Cache 64bit
- Memory – 2GB RAM ECC DDR 2 400MHz
- Video – ATI Radeon X700 256MB RAM
- Audio – Sound Blaster Audigy 1 OEM
- Power – Antec 550W

- 1) During the course of the above tests only one processor was used (one-thread process).
 - 2) Results of encryption/decryption tests using two processors (multi-thread process) will be announced within next couple of weeks.
- * The above results were achieved in the following way: because of a limitation in data transmission speed in our hardware, the results of encryption/decryption were created in processor's cache and immediately removed to avoid a bottleneck effect. Otherwise, the speed of our encryption process would be limited to the speed of the slowest component (hard drive, memory, processor's cache).

For more detailed test results and additional information please write to info@cipherflux.com.