# Cryptographic Algorithms Overview

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| Algorithm Name | Type | Key Size (bits) | Block Size (bits) | Round Count | Security Level | Performance (MB/sec) | Usability | Compatibility | Known Attacks | Resistance to Attack |
| AES | Symmetric | 128, 192, 256 | 128 | 10, 12, 14 | High | Varies | High | High | Related-Key Attack | High |
| RSA | Asymmetric | 1024-16384 | N/A | N/A | Moderate-High | Lower | Moderate | High | Factoring | Moderate-High |
| SHA | Hash Function | N/A | 512 (SHA-256) | N/A | High | Varies | High | High | Collision (SHA-1) | High (SHA-256/SHA-3) |
| Blowfish | Symmetric | 32-448 | 64 | 16 | Moderate | Varies | Moderate | Moderate | Weak keys | Moderate |
| ECC | Asymmetric | 160-521 | N/A | N/A | High | Moderate | Moderate | Moderate | Small Subgroup Attack | High |
| Twofish | Symmetric | 128, 192, 256 | 128 | 16 | High | Varies | High | Moderate | N/A | High |
| MD5 | Hash Function | N/A | 512 | N/A | Low | High | High | High | Collision | Low |
| Diffie-Hellman | Key Exchange Protocol | 1024-8192 | N/A | N/A | Moderate-High | Moderate | Moderate | High | Man-in-the-Middle | Moderate |