



# Secure Drive Encryption

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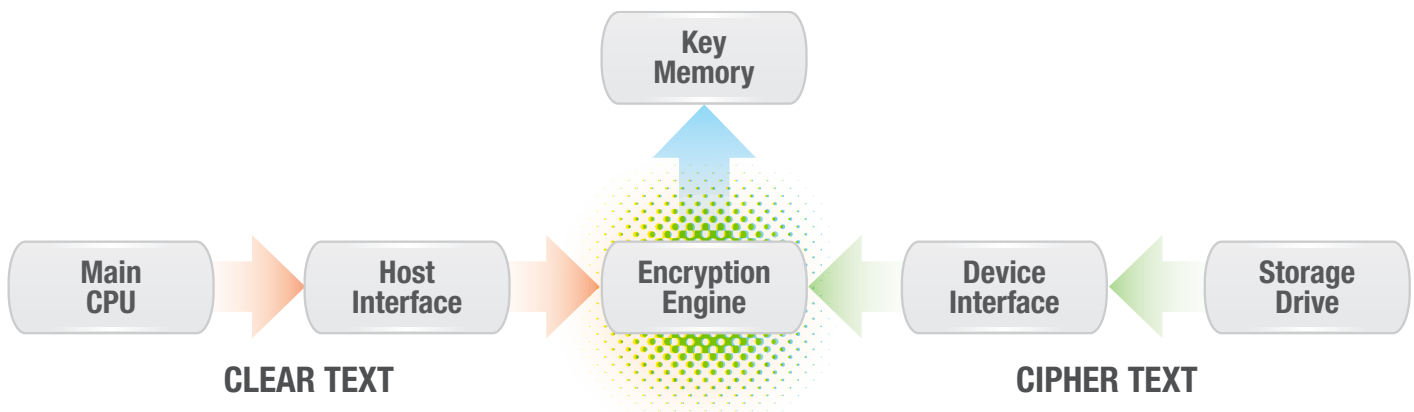
The **Secure Drive Encryption** drive encryption technology is implemented in all of our latest workstation and Tablet PCs. This technology utilizes a proprietary ASIC engineered to encrypt/decrypt the entire hard disk bit-by-bit including the Boot Sector, Operating System, Temp and Swap files. Encryption/decryption operations occur in real-time to ensure zero performance degradation and total transparency to the end user. This technology ensures multi-level privacy, confidentiality, authentication and authorization using the industry standard proven certified 192 bit TDES (Triple DES) algorithm.

Encryption key is stored in a serial EPROM that is local to the encryption ASIC and totally physically isolated from the main memory and processor busses. This allows key loading without the possibility of leaving traces or tracks in main

memory or mass storage.

In the event it becomes necessary to “zeroed” the workstation disk this is accomplished by a key combination which erases the key memory and shuts down the system in less than 30 msec. regardless of the state of the system. This includes the both on and off states and if the system is off and the internal battery is dead.

Once the key has been erased the workstation processor will not recognize that a HDD is connected to it and will report “no boot device found”. The only way to revive the system is to either reload the original key or to do a low level format of the drive in DOS after booting from an external DOS floppy disk.



Secure Drive Encryption Technology Process Diagram

For more information on our rugged products, please visit:

**[www.securecomm.com](http://www.securecomm.com)**

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