USB 3.0 SuperCrypt™

The reliability of Flash, the performance of an SSD, the compatibility and portability of USB and the Security of Hardware Encryption come together in SuperTalent's USB 3.0 SuperCrypt drive.

Features:
• All data written to drive is automatically encrypted
• Secure partition locks upon removal
• Hardware Encrypted partition does not appear until password is authenticated
• Secure Erase Feature
• 64MB Cache support elevates small block reads and writes
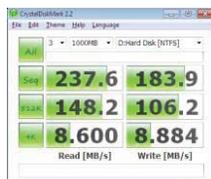• Key is stored in hardware and never passed on the USB or System bus

The SuperCrypt standard version provides 128bit AES encryption in ECB mode. The SuperCrypt Pro provides a stronger security algorithm, 256bit AES encryption in XTS mode.

An easy to use application is carried in a read-only partition on the drive. When a password is set, this application must be run and the password authenticated before access to the secure partition is granted.
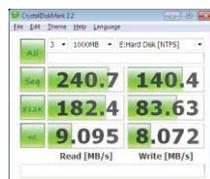
Here are some performance numbers that will give you a guideline of the performance that you might expect. These are incredible speeds for any drive, and this one is encrypted, portable and USB 3.0
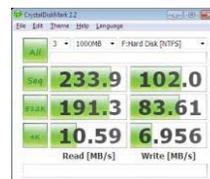
	256GB	128GB	64GB	32GB	16GB
Seq Read	234.2	237.6	240.7	233.9	160.1
Seq Write	173.6	183.9	140.4	102.0	56.61
512K Read	205.0	148.2	182.4	191.3	145.5
512K Write	156.9	106.2	83.63	83.61	51.44
4K Read	10.63	8.600	9.095	10.59	9.281
4K Write	10.45	8.884	8.072	6.956	2.877

USB 3.0 SuperCrypt™

Device	USB 3.0 SuperCrypt Drive	USB 3.0 SuperCrypt Pro
Physical Specification		
Interface	USB 3.0	USB 3.0
Capacity	16 -256GB	32GB - 256GB
NAND Flash	MLC	MLC
Dimensions	95 x 34 x 15.4 mm	95 x 34 x 15.4 mm
Performance Specification		
Seq. Read*	240 MB/s	240 MB/s
Seq. Write*	184 MB/s	184 MB/s
OS Support	Windows XP, Vista, Window 7 (32/64-bit)	Windows XP, Vista, Window 7 (32/64-bit)
Perform Maint	Supports Garbage Collection & Trim	Supports Garbage Collection & Trim
Reliability Specification		
MTBF	1,000,000 hours	1,000,000 hours
Data Reliability	Built-in EDC/ECC	Built-in EDC/ECC
Security	128bit Hardware Encryption, ECB	256bit Hardware Encryption, XTS
Environmental Specification		
Shock	1500G, 3 axis	1500G, 3 axis
Vibration	16G, each axis	16G, each axis
Operting Temperature	0°C to +70°C	0°C to +70°C
Internal Cache Size	64MB	64MB
Part Numbers	Super Crypt	Super Crypt Pro
	16GB - ST3U16SCS 32GB - ST3U32SCS 64GB - ST3U64SCS 128GB - ST3U28SCS 256GB - ST3U56SCS	32GB - ST3U32SPS 64GB - ST3U64SPS 128GB - ST3U28SPS 256GB - ST3U56SPS

*Max speed may be limited by host environment and or drive capacity
 Available April 12, 2010