# disk**A**shur® PRO SSD

## Secure USB 3.0 FIPS Solid State Drive

With real-time AES-XTS 256-bit hardware encryption, software free design and a super speed USB 3.0 connection, the perfect blend of security, durability and speed.

**Super fast USB 3.0 encrypted SSD fuses FIPS 140-2 Level 2 hardware data protection with secure PIN access in a robust design.**

Certified to NIST FIPS 140-2 Level 2, the iStorage diskAshur Pro SSD® secures data with real-time AES-XTS 256-bit hardware encryption. With no moving parts, the diskAshur Pro SSD is drop and vibration resistant, unaffected by high humidity and works in extreme temperatures. Impervious to key logging attacks, you access the diskAshur Pro SSD via the onboard keypad. Combine this with a USB 3.0 integrated cable and Solid State performance and you have one powerful drive.

With software free setup and operation, the diskAshur Pro SSD truly becomes platform independent and works across all operating systems including thin clients and embedded systems such as medical equipment. The diskAshur Pro SSD enables you to access the drive by simply entering your own unique 7-16 digit PIN and with super-fast USB 3.0 you can now access your data faster and more securely than ever before!

**Compatible with:**

## Main Features

- ✓ FIPS 140-2 Level 2 Certified - Certificate No. 1970
- ✓ FIPS PUB 197 Validated Encryption Algorithm
- ✓ Real-time military grade XTS-AES 256-bit hardware encryption
- ✓ Ultra Rugged Solid State Drive
- ✓ No software or drivers required
- ✓ 100% hardware encryption
- ✓ OS & Platform Independent - compatible with Windows, Mac, Linux, Android, Thin Clients & Embedded Systems
- ✓ Brute Force Hack Defence Mechanism
- ✓ Self Destruct Feature
- ✓ Data at Rest Protection
- ✓ Encryption keys are always encrypted while at rest
- ✓ Supports Admin PIN and 4 unique User PINs 7-16 digits in length
- ✓ Super Speed USB 3.0 with integrated cable
- ✓ Variable Time Circuit Technology
- ✓ Wear Resistant Key Pad - Water & Dust Resistant
- ✓ Auto Lock Feature
- ✓ Drive Reset Feature
- ✓ Capacities of 128, 256 & 512GB
- ✓ 3 Year Warranty

## What is FIPS?

**FIPS Level 2 CERTIFIED**

Considered the benchmark in US government data security, FIPS 140-2 is a critical and globally recognised metric that demonstrates that the technology device has passed a stringent set of rigorous testing procedures and means the highest standard set for encryption algorithms and data protection.

## Why use a Solid State Drive?

**SSD SOLID STATE**

- ➕ 5x greater life expectancy than premium rotational drives
- ➕ Operating temperatures of up to 5°F to 130°F (-15°C to 55°C)
- ➕ Unaffected by high humidity
- ➕ Works in 95% humidity at temperatures under 131°F (55°C)
- ➕ Virtually shock and vibration resistant
- ➕ Rated to: Shock 1500G/0.5ms, vibration 20G/20-2000Hz
- ➕ With no moving parts, the SSDs are completely silent

## Request your FREE 30 day evaluation

**30 DAYS**

iStorage products are used extensively by Government Departments, Defence Departments, educational institutions, local/central government, energy/utility companies, financial institutes as well as countless leading multi-national organisations.

To find out why such companies trust iStorage with their valuable and sensitive data, request a no-obligation product evaluation from iStorage.

Please email evaluation@istorage-uk.com or call +44 (0) 20 8991 6260 for your free 30 day evaluation.

www.istorage-uk.com

info@istorage-uk.com | Tel: + 44 (0) 20 8991 6260 | Fax: + 44 (0) 20 8991 6277
iStorage Limited, iStorage House, 13 Alperton Lane, Perivale, Middlesex, UB6 8DH, UK

**iStorage**

## Technical Specifications

| | |
|---|---|
| Capacity | 128GB, 256GB, 512GB & 1tB |
| Shock-Operating | 1500G/0.5ms - Virtually shock and vibration resistant |
| Power Supply | Bus Powered |
| Dimensions (W, D, H) | 120 mm x 84.5 mm x 19 mm |
| Weight | max. 200 grams approx. |
| Approvals | FIPS 140-2 IL2, FIPS PUB 197 Validated, FCC CE, ROHS, WEEE |
| Interface | USB 3.0 - Up to 5Gbps |
| Hardware | USB 3.0 - Backward compatible with USB 2.0/1.1 |
| Operating System Compatibility | Windows, Mac,  Linux, Thin Clients, Android & Embedded Systems |
| Hardware Data Encryption | AES-XTS 256-bit |
| Warranty | 3 Years |
| iStorage Part Number | IS-DP3-256-SSD-xxxF  ( x = Capacity, F = FIPS ) |
| Box Contents | Drive, Travel Pouch & QSG (Quick Start Guide) |

### Brute Force Hack Defence Mechanism:
The iStorage diskAshur Pro SSD uses a three pronged approach to protect against a Brute Force attack. The first step is to deny access to the drive until the drive can verify the user PIN. After several incorrect attempts the drive will lock itself, requiring the drive to be plugged in again to input a PIN. This feature blocks automated attempts to enter PIN numbers. Lastly, after a predetermined number of failed PIN entries, the diskAshur Pro SSD assumes it is being attacked and will destroy the encryption key and lock itself, rendering the data useless and requiring a total reset to redeploy the diskAshur Pro SSD.

### Self Destruct Feature:
You can pre-program the diskAshur Pro SSD with your own unique Self Destruct PIN which, once implemented, instantly destroys all PINs, data and creates a new encryption key.

### Variable Timing Circuit Technology:
Protection against hacker attempts doesn't stop with Brute Force. Incorporated into the diskAshur Pro SSD electronics is iStorage's Variable Time Circuit (VTC) technology, working to thwart "timing attacks" aimed at accessing the drive by studying the behaviour and infiltrating the diskAshur Pro SSD's electronics.

### Sealed from Physical Attacks by Tough Epoxy Coating:
In addition to encrypting the data and the encryption key itself, the diskAshur Pro SSD adds another barrier between your data and a hacker. The encryption chip and circuitry of the diskAshur Pro SSD are completely protected by a super tough epoxy compound, which is virtually impossible to remove without causing permanent damage to the electronics. This barrier prevents a potential hacker from accessing the crypto module and launching a variety of potential attacks.

### Wear Resistant Keypad - Water & Dust Resistant
Designed with protection in mind, the diskAshur Pro SSD's wear resistant keypad hides key usage to avoid tipping off  a potential hacker to commonly used keys.

### Auto Lock Feature:
Set the unattended drive to lock after a pre-determined amount of time.

### Compact Rugged Design:
Perfect for taking your data on the road, the diskAshur Pro SSD's low powered design is perfect for using with notebooks and taking your data on the road. Perfectly pocketable, the diskAshur Pro SSD's compact, robust design features a 16-point omnidirectional shock mounting system and rubberised paint, protecting the drive from drops and knocks.

## The iStorage Product Range - Innovative data security solutions

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**iStorage**