

## Bloombase Spitfire Operator Key



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### Features

#### Secure Operational Delegation

Operations of Spitfire security servers are secured by Spitfire Operator Key(s) enabling secure delegation of administrative work to only authorized personnel

#### Maximum Security and Manageability

Application specific Spitfire cryptographic processes are started only when a valid Spitfire Operator Key is presented to kick-start Spitfire server processes

#### Tamper-proof and Tamper-resistant

Bloombase Spitfire Operator Key is built on NIST FIPS 140 validated hardware cryptographic module with tamper-proof and tamper-resistant features inheriting from smart card technologies

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### Security

NIST FIPS validated RSA cryptographic cipher algorithm support

X9.17 PRNG random number generator for FIPS approved RSA key pair generation

SHA-1 hashing algorithm support

PKCS#11 compliant

Pin protection

Automatically blocked on 5 successive failure login attempts

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### Durability

More than 100,000 write/erase cycles

10-year data retention (ambient temperature)

Temperature range of -25°C to +85°C

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### Protection

Cryptographic module embedded in epoxy coating which is difficult to penetrate without leaving evidence of attacks

Packaging is resistant to penetration

System firmware is stored in read-only memory (ROM) during manufacturing process, once manufactured, no known method to be altered

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### Interoperability

Bloombase SpitfireOS security hardened operating system

Linux kernel 2.6 or above

Microsoft Windows

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## Management

Full key lifecycle management possible by Bloombase Spitfire web management console and command line interface (CLI) console

Role based user management - cryptographic officer and user

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## Hardware Specifications

STMicroelectronics ST19XT34 8 bit microcontroller

32KB tamper resistant internal storage

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## Certifications

NIST FIPS 140-1 Level 2 certified

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## Hardware Compliant Standards

ISO/IEC 7816 compliant

USB Specification v1.1 compliant

FCC Class B certified



**Bloombase** - Transparent Data Security

email [info@bloombase.com](mailto:info@bloombase.com)

web <http://www.bloombase.com>

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Specification Sheet  
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