



spreadbox®



# Spreadbox

Most private video conferencing and file exchange

[www.spread.me/spreadbox](http://www.spread.me/spreadbox)

“Spreedbox is your private cloud and trustworthy video conferencing and file sharing. It’s literally in your hands to take back your data.”

– Niels Mache,  
CEO Struktur AG



## Spreedbox – a new Generation of Collaboration

Collaboration under your control. Spreedbox is a private and secure cloud server for office collaboration, video conferencing and document exchange. Collaborate on important documents, manage your calendar and hold video chats without having to store data on external servers.

### Public Cloud vs. Private Cloud

Today, most organizations utilize online services like Google®, Skype®, WebEx®, GoToMeeting®, and BlueJeans® for file sharing and communication. But where is your data and who has access to all your confidential conversations, files, videos and personal contacts? Sensitive information is often uploaded and shared with these service providers that lack adequate service and privacy agreements that meet your requirements in privacy and confidentiality.

With Spreedbox, your data will be stored on Spreedbox’s flash memory. You can expand the storage capacity by adding an external disk drive (up to 4 USB ports are available) or to external storage services and the data can be encrypted by the Spreedbox before storage. Get all the benefits of the cloud without compromising your privacy.

### Your Data, Your Control

Spreedbox empowers you to reclaim ownership of your data. Make a call, invite your friends and clients, and collaborate in closed groups through video/audio, text messaging, and document and file sharing. Spreedbox allows you to do this via computers, mobile phones and tablets through the Internet or limited to an Intranet. With the highest measurements for control and security, you can rest assured that your data will remain confidential on your personal Spreedbox. You can access your private data through an easy-to-use web interface with PC, Android and iOS devices.

### Open Source

An international community of software engineers and volunteer contributors developed the server software and you are invited to get involved, too. The Spreedbox software is free and published under open source AGPL license which allows you to examine, share and modify it.

### Unparalleled Security

Spreedbox firmware is Linux based, providing a world-leading level of security as transactional components with rigorous application isolation. Using well implemented secure cryptographic algorithms, a high-speed quadcore CPU and two independent hardware true random number generators (TRNGs), Spreedbox features an outstanding cryptographic specification well above any industry standard.

### Use One Spreedbox, Reach Many

Spreedbox is instantly ready to use. Using one Spreedbox, you can securely host a meeting with up to 6 people in a session. You can use video/audio, share files and collaborate on documents. Up to 10 group sessions can be held simultaneously, each with 6 attendees. This is an awesome capacity of real-time meeting. Up to 60 people at any one time – all with a single Spreedbox.

### One Last Thing

As Spreedbox is your private cloud, you can video chat and share globally 24 hours a day, 365 days a year. There are no fees, no subscriptions and no running costs.\*

\*Electricity and Internet connectivity is on your account.

## Spredbox Applications

The primary use of Spredbox is private and secure video chat and file exchange. In industry applications, information security is pervasive in sectors with an increased requirement for secure and private communication:

- **Information Technology**
- **Industry:** construction, automotive, aerospace and semiconductors
- **General Engineering & Design Manufacturing**
- **Finance Industry**
- **Lawyers, Advisors & General Consultancy**
- **Research Laboratories & Universities:** general science collaboration
- **Government**
- **Hospitals:** collaborative environment for radiology and medical imaging. Secure, real-time exchange of diagnostic reports, sharing of medical imaging in real-time across desktop and mobile devices
- **Doctors:** medical consultation
- **Schools**
- **General secure communication and secure file exchange**

## Securely use your Spredbox with web browsers and apps:

### Nextcloud

Available for iOS and Android.

### Nextcloud Talk

Available for iOS and Android.

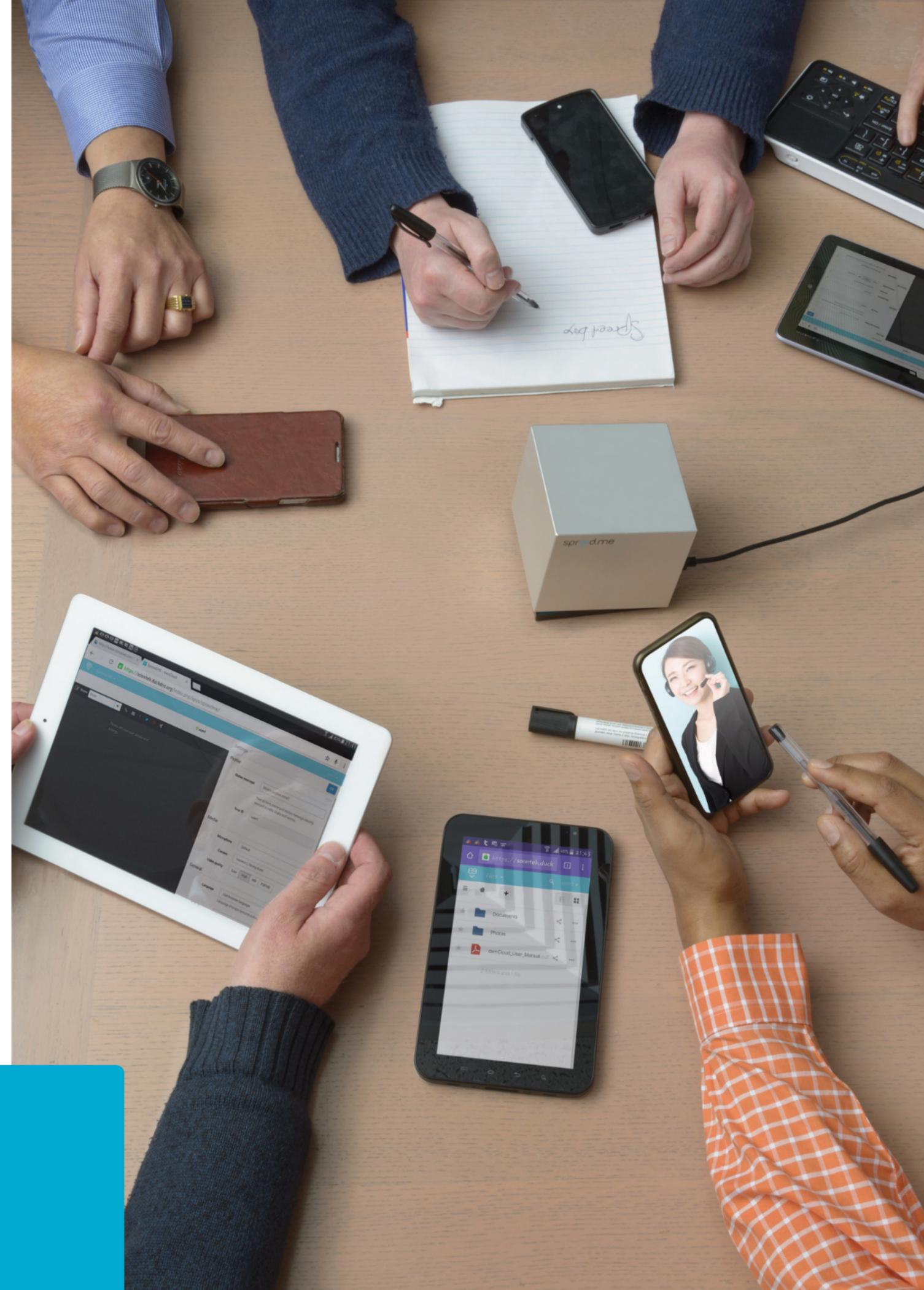
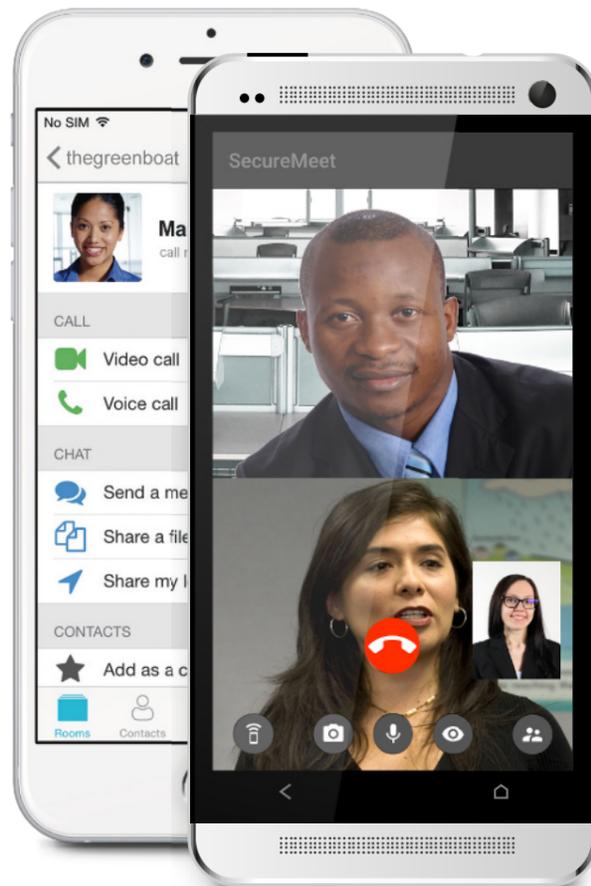
### Nextcloud Desktop Apps

Available for Linux, Windows and Mac OS.

### Iridium Secure WebRTC Browser

Get the most secure browser here:

<https://iridiumbrowser.de>



Sp(r)eed up your privacy. Use your Spredbox with secure web browsers and apps.

## Design

With its clear and straight shape the Spreadbox reflects the integrity of its software.

## Purity

Spreadbox is made from a single piece of aluminum. Its unibody is milled from a solid block of aluminum, finely milled and surface treated.

## Strength & Durability

Its beautiful anodized finish keeps the Spreadbox from corrosion and provides a hard and (mostly) scratch resistant surface.

## Ease

Spreadbox is quiet due to passive cooling. Its large surface and thermoconductive material keeps the box cool at all times.

## Brilliance

Its customizable color patterns notify you about calls, voice/video messages and incoming files. The well-engineered LED diffusor maps the radiated light onto a beautiful carbon black stand.

**These outstanding details manifest the awesome design and function of Spreadbox.**

“A product that is coherent in form requires no embellishment. It is enhanced by the purity of its form.”  
– F. A. “Bützi” Porsche



## Award-winning Design

Spreadbox received the Good Design Selection Award 2016 and German Design Award Special Mention 2017.

## Security Features

### Hardware Random Number Generator

The Spreadbox Secure Key HRNG is a hardware unit that generates informational entropy as bit-serial random numbers and presents it over the Serial Peripheral Interface (SPI). This allows you to improve the quality and availability of random data needed by the Spreadbox for cryptography and security, and eventually for your own purposes.

The Spreadbox hardware random number generators are designed to be verifiable and hackable. The entropy source of the Spreadbox HRNG is derived from two avalanche diodes arranged in a bridge circuit that is amazingly fast, reliable and effectively suppresses incoming parasitic noise-like signals from the environment.

### Iridium Secure Browser

For enhanced privacy and security, [Iridium Secure Browser](#) is available.

### End-2-End Encryption (DTLS 1.2, TLS 1.2, DTLS-SRTP)

#### TLS 1.2

- ChaCha20-Poly1305 (iOS, Desktop App, Iridium on Mac/Windows)
- AES128-GCM-SHA256 (Iridium on Linux)
- ECDHE with secp384r1 prime field curve

#### DTLS

- ChaCha20-Poly1305 (iOS, Desktop App)
- AES256-CBC-SHA (Iridium on Mac and Windows)
- AES128-CBC-SHA (Iridium on Linux)
- ECDHE with secp256r1 prime field curve

#### DTLS-SRTP

- AES128-GCM

## Features



### Nextcloud Hub

Stand-alone Server with [Nextcloud Hub](#) (Nextcloud 18)



### Document editing

File access and document editing (Word, Excel, PowerPoint and LibreOffice files)



### Chat

Secure exchange with colleagues, partners and customers



### Calendar

Integrated calendar



### Contacts, team management

Easy management of contacts and teams



### Access on the go

Access on the go with a simple user interface in the browser and with mobile apps



### Secure

Multilayer encryption for data and communication, secure exchange with colleagues, partners and customers



### Crypto-hardware

Two super-fast, independent True Random Number Generators (HWRNGs, TRNGs)



### HD Audio

HD wideband audio codec with 20kHz audio bandwidth and stereo (optional)



### HD Video

HD video with video resolution of up to 4k/1080p (max. video resolution depends on client [PC/Linux/Mac] performance and internal/external camera)



### Access control

Comprehensive monitoring and audit logging, extended permissions, file access control and authentication options (2-factor etc.)



### Support of U2F tokens

YubiKey/Yubico/Fido, Nitrokey and others as well as Free OTP, Google & Microsoft Authenticator and others (TOTP, RFC-6238)



### Fast flash memory

64GB, 128GB, 256GB and 512GB available, expandable



### LED patterns

Customizable LED color patterns for calls and incoming files



### Silent (fanless)

Fanless with ultra-low power consumption (3.5 watts)



### Made in Germany

100% hardware and software developed in Germany, 2 years warranty and guarantee



**Private cloud. No subscription,  
no running costs.**

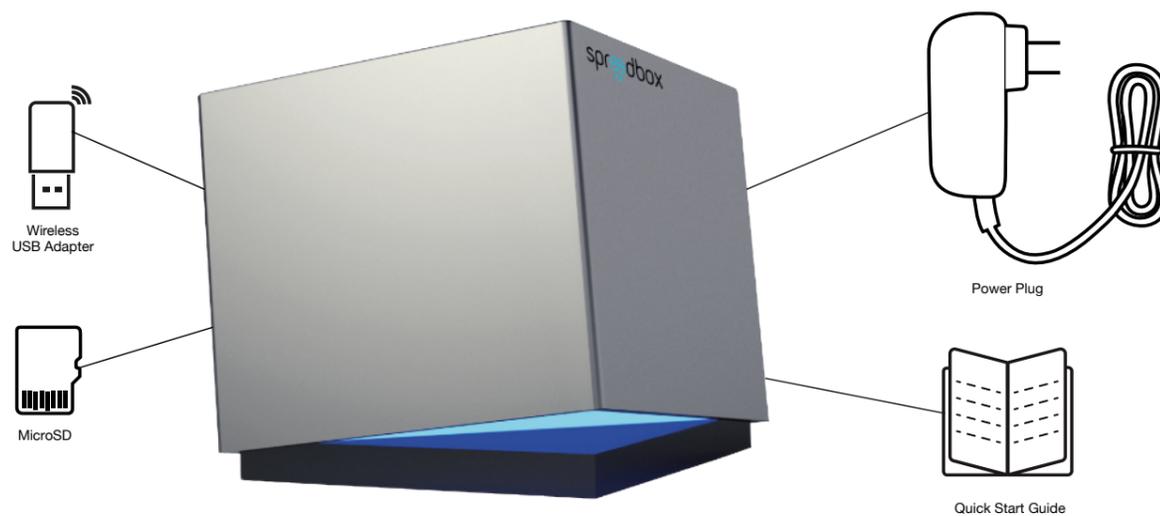
## Technical Specifications

64/128/256GB and 512GB Flash SSD (externally expandable)	RTC (Real Time Clock) with backup battery
USB 2.0 Host x 4, USB OTG x 1	eMMC4.5 HS200 Flash Storage Slot
Two (2) super-fast, independent hardware True Random Number Generators (TRNGs)	Pre-installed software on microSDHC UHS-I Class 10 memory card
Customizable LED color patterns for calls and incoming files	Silent (fanless) with ultra-low power consumption (3.5 watts)
Power Supply 100-240 V, 5 V/2 A, Standby < 0.1W, conforms to EU Directive on Eco-Design (ErP). Multi-plug (EU, UK, US, CN, HK, AU) power supply included. Certified power supply for Japan available.	Gigabit Ethernet 10Base-T, 100Base-TX, and 1000Base-T IEEE 802.3 standards, WLAN adapter included.

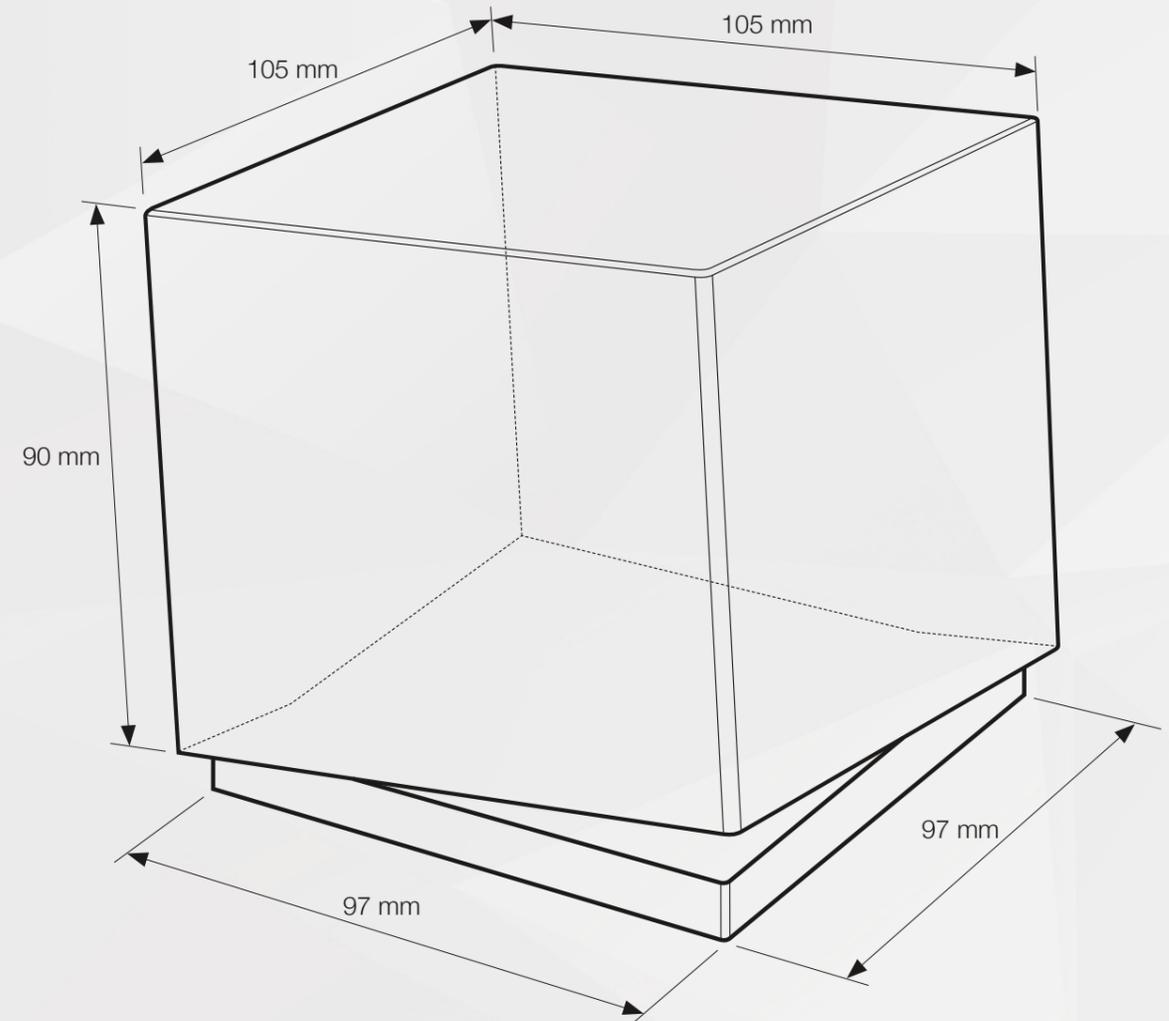
## Size and Weight

- Height: 4.4 inches (11.1 cm)
- Width: 4.1 inches (10.5 cm)
- Depth: 4.1 inches (10.5 cm)
- Weight: 2.8 pounds (1.3 kg)

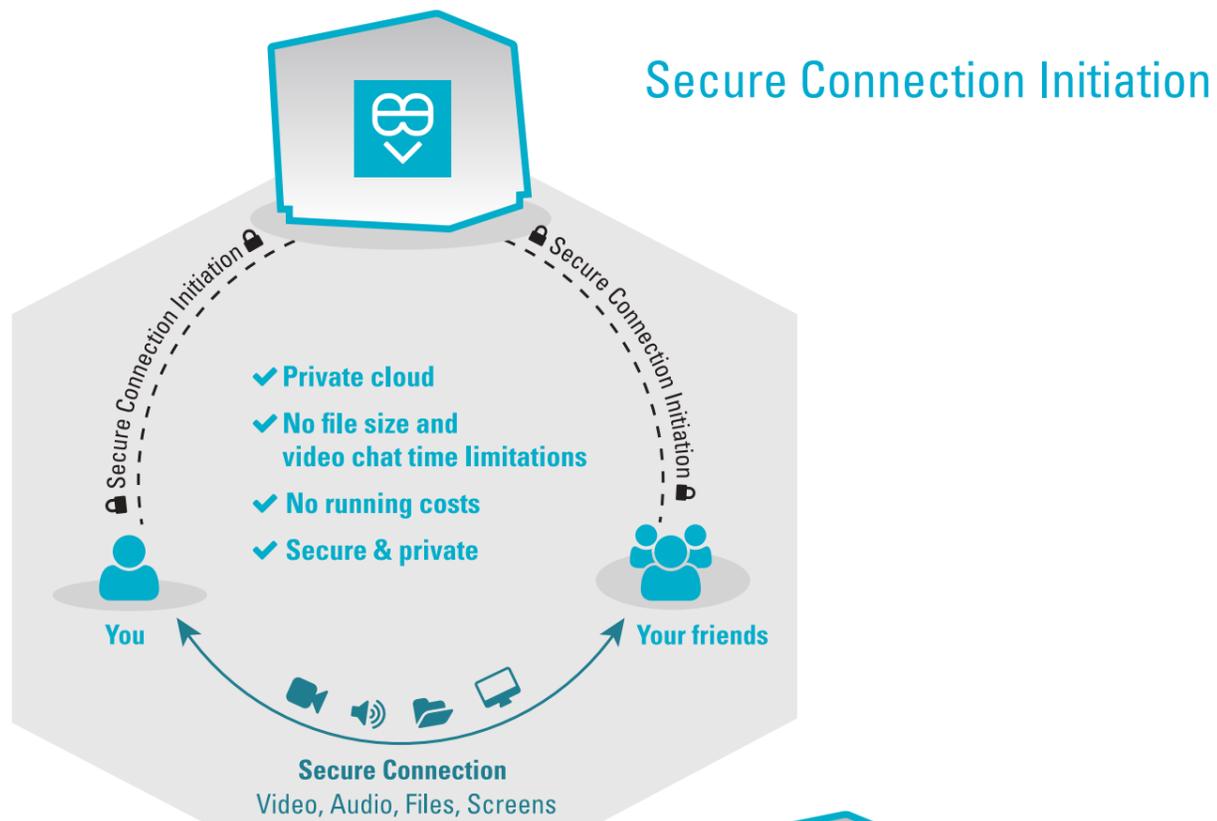
## What's in the Box



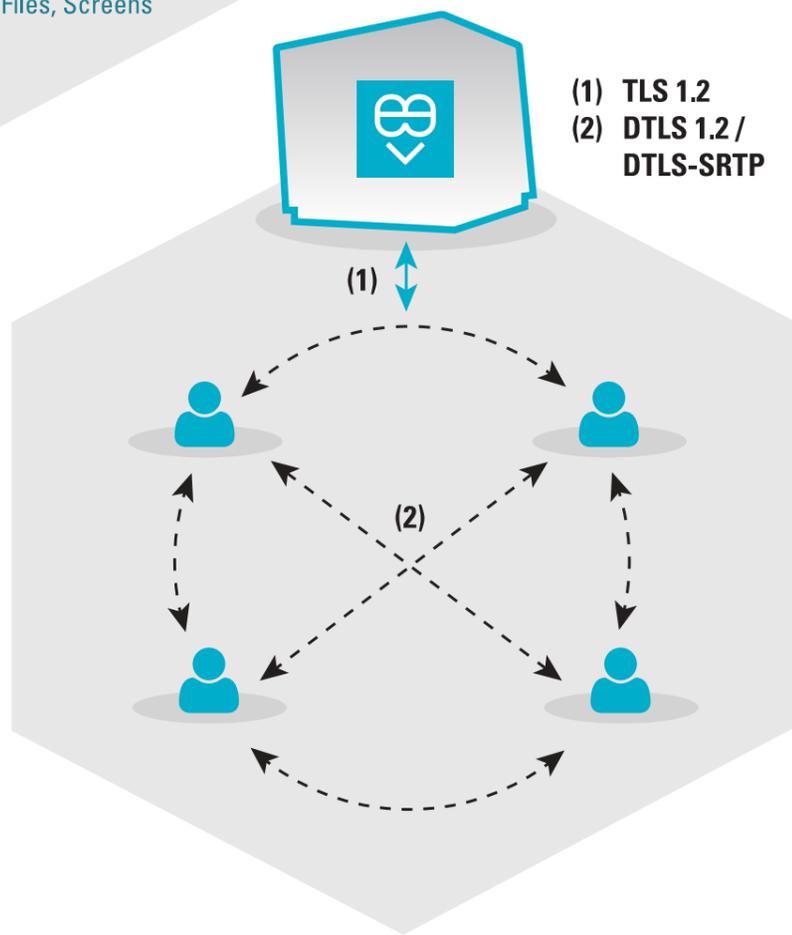
With its clear and straight shape the Spreedbox reflects the integrity of its software.



Start communicating through a safe and secure line.  
Get your Spreadbox now.



### Spreadbox Security



Secure communication example: 4 attendees meet together (many-to-many)





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