



# Smart Object

In the lineage of Smart Cards, ASK and Neowave introduce a new range of Smart Objects offering a unique combination of features, online reloading and contactless validation.

**Weneo** is above all a convergence product offering a dematerialization solution for current and future Smart Card markets.

Thanks to its embedded USB reader function, **Weneo** suitably answers connectivity needs to Web services access with mass storage capacity and unachieved processing power.



## Weneo

### Web applications

- Secure on-line reloading & on-line update
- PC and Web connectivity through USB interfaces
- Autorun installation (fast and easy)
- Strong authentication solution

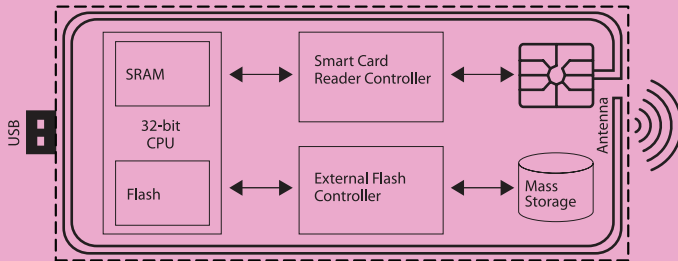
### Contactless applications

- Secure contactless transaction
- Full compatibility with legacy contactless infrastructures
- Secure physical and logical access
- Calypso certified chip
- Optional locked ID photo (Weneo Pass)

### USB key applications

- Multi-applicative platform, open and powerful
- Innovative design
- Excellent ergonomics





The lack of reader infrastructure is today a significant barrier to using Smart Cards at home or at office. Integrating contactless smart cards with Weneo leads the way to contactless ease of use PC applications and booming web services with a USB interface.

In connected mode (USB), Web and PC applications communicate with Weneo's Smart Card. In contactless mode, Weneo products support main protocols and operating systems such as:

- Type A, type B, Mifare®, Innovatron contactless protocols
- Native and Java Card™ operating systems

Weneo product range is composed of convergence products offering dematerialization, generating services for operators and creating full autonomy for users.

### Product specification

#### USB interface

- USB 2.0 (USB 1.1 compatible)

#### Flash memory

- PC and Mac compatible
- From 512 MB to 4 GB
- Efficient wear levelling algorithm

#### Reader

- PC/SC (standard driver)
- CCID (standard driver)

### Environment

#### Operating Systems

- Microsoft Windows 2000, XP, Vista
- Apple MAC OS X
- Linux

#### Browsers

- Microsoft Internet Explorer 6, 7, 8
- Mozilla Firefox 2, 3

#### Smart Card applications

- Mass Transit : Calypso, MIFARE®
- Physical and logical access control
- Banking
- e-Ticketing
- Healthcare, DRM,...
- Customized applications

#### Other features

- Dimensions :  
Weneo Standard: 34 mm x 67 mm x 8 mm  
Weneo Pass: 35 mm x 72 mm x 9 mm
- Power consumption: 100 mA max.
- Weight: 20 g

### Main market benefits by segment

- Major
- Attractive
- Nice to have

Features	Smart Card	Weneo Smart Object	Mass transit	Corporate	Banking	e-Ticketing	Healthcare
Contactless transaction	✓	✓	■	■	■	■	■
High throughput	✓	✓	■	■	■	■	■
On-line reloading	✗	✓	■	■	■	■	■
PC/Web connectivity	✗	✓	■	■	■	■	■
On-line update	✗	✓	■	■	■	■	■
Secure identification	✓	✓	■	■	■	■	■
Physical access control	✓	✓	■	■	■	■	■
Logical access control	✓	✓	■	■	■	■	■
Mass storage capacity	✗	✓	■	■	■	■	■
Autorun function	✗	✓	■	■	■	■	■
Secure large file transfer	✗	✓	■	■	■	■	■
Built-in USB reader	✗	✓	■	■	■	■	■
e-Purse	✓	✓	■	■	■	■	■
Visual control (Holder's photo)	option	option	■	■	■	■	■

