NEOWAVE

Winkeo2J-A
FIDO2 + OTP + QSCD-CDoc

Passwordless FIDO2 + OTP + QSCD-CDoc USB-A token

The universal strong authentication and qualified digital signature solution 100% Made in France

CYBERSECURITY™
MADE IN EUROPE



eIDAS

fido CERTIFIED FIDO2 L2

Winkeo2J-A FIDO2 + OTP + QSCD-CDoc includes:

- USB-A HID – PC/SC interface
- Common Criteria EAL6+ certified smart card
- FIDO2 (CTAP 2.1) applications, FIDO2 Level 2 certified + FIDO U2F
- OTP (HOTP / TOTP) applications
- eIDAS-certified ChipDoc PKI / QSCD Application + RGS**
- Idopte Middleware

FIDO2 + OTP + QSCD-CDoc products are compatible with the majority of of deployed business applications.

Supported operating systems and browsers

- Windows, Mac OS, Linux, Chrome, Edge, Firefox, Safari
- For FIDO, no software installation on the client workstation
- For OTP, use of the application **NEOWAVE OTP Manager** required

Integrated smart card (Micro SIM)

- Java Card™
- CC EAL6+
- DES/3DES, AES, ECC, RSA
- Credential generation, management and storage inside the smart card

Wide compatibility

- Windows 10/11 with Microsoft Entra ID and over 250 online services such as Gmail, Paypal, OVH, WordPress, Dropbox
- Identity federations such as Evidian, Ilex, Okta, Ping Identity
- Strong authentication, directories, PKI, SSO, VPN, encryption, digital signature

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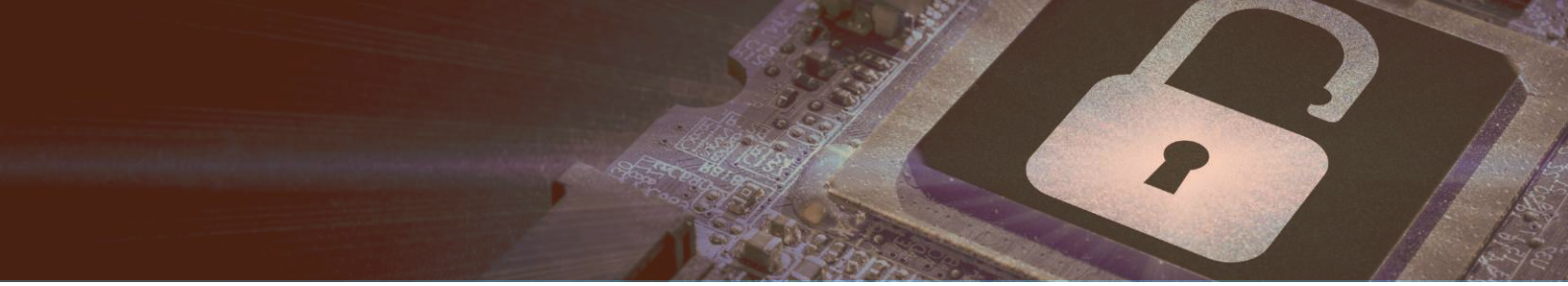

Winkeo2J-A FIDO2 + OTP + QSCD-CDoc is NEOWAVE's next-generation USB-A security key, made in France, combining strong authentication, OTP and qualified electronic signatures. It supports **FIDO2 (CTAP 2.1) / FIDO U2F** and **OTP (HOTP/TOTP)** standards and integrates an **eIDAS QSCD-certified PKI applet with enhanced RGS** qualification**. **FIDO2 Level 2 certified**, it provides a high level of security to protect access, identities and electronic documents.

- FIDO2, OTP and PKI/QSCD authentification
- Qualified electronic signatures compliant with European security requirements (eIDAS, QSCD, NIS, PSD2, etc.)
- Protection against phishing and password theft
- Secure generation and storage of credentials on the smart card
- User presence by button
- Complete separation between FIDO, OTP and QSCD applications
- No "key wrapping" / No shared key preinstalled
- To use the OTP function, you need to download the **NEOWAVE OTP Manager** application

Interface(s)
• USB-A 2.0 HID - PC/SC

Smart card
• Micro SIM: ISO 7816 Java Card™ certified Common Criteria EAL6+

Supported operating systems
• Windows, Mac OS, Linux

Browsers
• Chrome, Edge, Firefox, Safari

FIDO2.1 features
• credProtect
• hmac-secret
• Resident keys (rk) - Detectable credential
  - Maximum number limited by an available persistent memory (200 to 512 bytes per credential)
• User PIN, PIN 1 and PIN 2 protocols
  - PIN length between 4 Unicode characters and 63 bytes
  - PIN try limit set to 8. After 8 unsuccessful tries, the authenticator must be reset.
  - No default value
  - Management of specific PIN policies
• Extensions :
  - credBlob
  - credProtect
  - hmac-secret
  - largeBlobKey
  - minPinLength
  - uvm

Supported signature-algorithm
• ECC P-256 (secp256r1)

QSCD features
- RSA 2K (bits)
- RSA 3K (3072 bits)
- RSA 4K (4096 bits)
- ECC NIST P-256 / SECG secp256r1 (256 bits)
- ECC NIST P-384 / SECG secp384r1 (384 bits)
- ECC NIST P-521 / SECG secp521r1 (521 bits)

• Options
  - PIN
    - PIN length between 5 and 15 bytes
    - PIN try limit set to 3
  - PUK
    - PUK length between 5 and 15 bytes
    - PUK try limit set to 3

OTP application features
• TOTP: 30 or 60 secondss
• HOTP: configurable initial counter
• Common features:
  - 6 to 8 digits
  - SHA 1, 256, 512
• Protection of OTP codes with a PIN (optional):
  - Format: Alphanumeric
  - Length: 4 to 63 characters

Dimensions and weight
• Length 43.8 mm / width 18 mm / height 9.76 mm
• Weight: 6 g

2 YEAR LIMITED WARRANTY

About NEOWAVE
NEOWAVE specializes in strong authentication and secure transactions. NEOWAVE's products combine the high level of security provided by smart cards with the advantages of storage and connectivity technologies: USB, RFID / NFC and Bluetooth Low Energy (BLE). NEOWAVE products and services address the cybersecurity, digital trust and identity management markets.

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