NEOWAVE

Winkeo2J-A FIDO2 + OTP + QSCD

Passwordless FIDO2 + OTP + QSCD USB-A token

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

CYBERSECURITY™ MADE IN EUROPE



eIDAS

fido CERTIFIED FIDO2 L2

Winkeo2J-A FIDO2 + OTP + QSCD 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 PKI / QSCD application
- Middleware SafeSign Identity Client

FIDO2 + OTP + QSCD 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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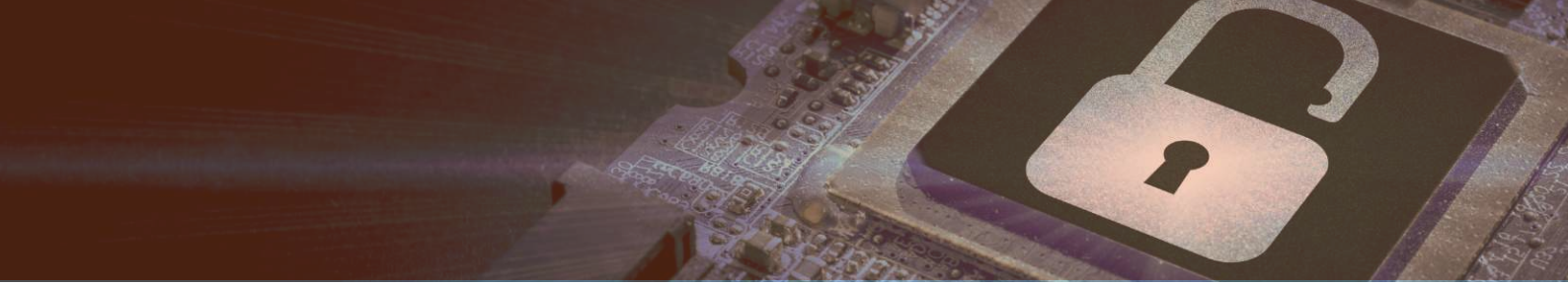

Winkeo2J-A FIDO2 + OTP + QSCD is NEOWAVE's next-generation USB-A security key, made in Europe, combining strong authentication, OTP and qualified electronic signatures. It supports **FIDO2 (CTAP 2.1) / FIDO U2F** and **OTP (HOTP/TOTP)** standards and integrates an **eIDAS QSCD-certified PKI applet**. **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 and AET Europe
NEOWAVE and AET Europe providecybersecurity, digital trust, and identity and access management solutions. NEOWAVE, a French company, specialises in strong authentication and secure transactions, offering products incorporating USB, RFID/NFC, and BLE technologies. AET Europe, a Dutch company, develops software solutions for identification, authentication, and electronic signatures.

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