

Winkeo2J-C FIDO2 + OTP

USB-C token FIDO2 + OTP
Passwordless



CYBERSECURITY™
MADE IN EUROPE



Strong authentication for the web/cloud and applications

Winkeo2J-C FIDO2 + OTP includes:

- ✓ USB-C HID - PC/SC interface
- ✓ Smart card certified Common Criteria EAL6+
- ✓ FIDO2 (CTAP 2.1) + FIDO U2F applications, certified FIDO2 L2
- ✓ OTP applications (HOTP / TOTP)

FIDO2 + OTP products are compatible with the majority 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



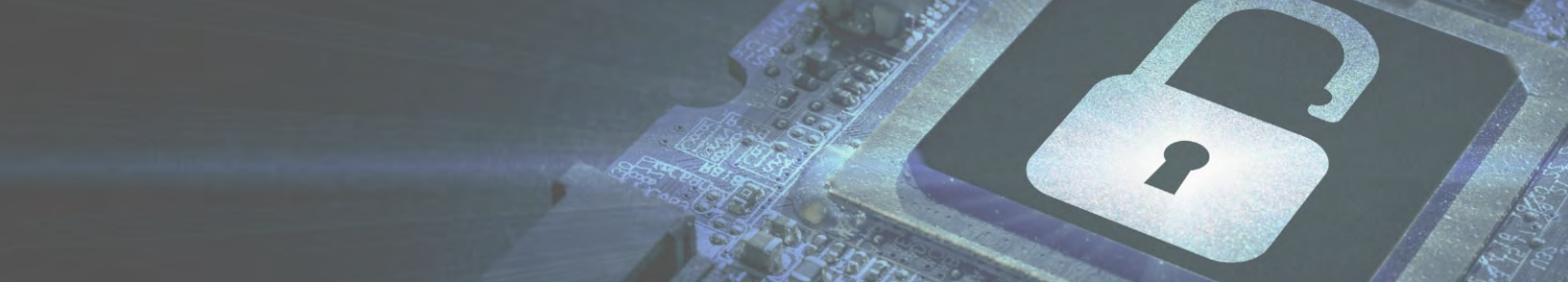
Integrated smart card (Micro SIM)

- 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



The **Winkeo2J-C FIDO2 + OTP** is NEOWAVE's new generation of USB Type-C security keys designed to provide strong authentication, both on the web and in the cloud. Compatible with **FIDO2 (CTAP 2.1)** and **OTP (HOTP/TOTP) standards**, and **certified FIDO2 L2**, it ensures maximum protection against phishing and password theft.

- ✓ Easy to use and deploy (HID and PC/SC device: no driver installation required for FIDO)
- ✓ To use the OTP function, you need to download the **NEOWAVE OTP Manager** application
- ✓ Credential generation, management and storage inside the smart card
- ✓ User presence by button
- ✓ Complete separation between FIDO2 and OTP applications
- ✓ Anti-Phishing protection (to replace vulnerable SMS solutions)
- ✓ No "key wrapping" / No shared key preinstalled

Interface(s)

- USB-C 2.0 HID - PC/SC

Smart card

- Micro SIM: ISO 7816 Java Card™
Certified Common Criteria EAL6+

Supported operating systems

- Windows, Mac OS, Linux, Android, iOS

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
- Customization options:
 - ep - Enterprise Attestation

- largeBlobKey
- minPinLength
- pinUvAuthToken
- noMcGaPermissionsWithClientPin
- setMinPINLength
- credBlob
- authnrCfg
- credMgmt
- largeBlobs
- makeCredUvNotRqd
- alwaysUv

Supported signature-algorithm

- ECC P-256 (secp256r1)

OTP application features

- TOTP: 30 or 60 seconds
- 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

- Dimensions (L × W × H): 39.7 × 18 × 8.25 mm • Weight: 5 g



About FIDO (Fast Identity Online))

The FIDO Alliance, bringing together major players such as Google, Microsoft and Apple, encourages the adoption of FIDO2 for passwordless authentication using passkeys based on cryptographic keys, as well as FIDO U2F for enhanced second factor authentication. Devices such as Winkeo keys and Badgeo cards contribute to increased protection against phishing cyberattacks.

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.