

Badgeo Dual FIDO2

FIDO2 (+U2F) and DESFire EV2/EV3 dual smart card Passwordless



CYBERSECURITY™
MADE IN EUROPE



Strong authentication for the web/cloud

Badgeo Dual FIDO2 includes:

- ✓ ISO 7816 contact and contactless / NFC interface
- ✓ Smart card certified Common Criteria EAL6+
- ✓ FIDO2 (CTAP 2.1) + FIDO U2F applications, certified FIDO2 L2
- ✓ DESFire EV2/EV3 interface
- ✓ Contactless / NFC options: ISO 15693 and 125 KHz

FIDO2 products are compatible with FIDO2 and FIDO U2F services.



Supported operating systems and browsers

- Windows, Android, iOS, Chrome, Edge, Firefox, Safari
- No software installation on the client Workstation



Smart card

- 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



Badgeo Dual FIDO2 is a dual interface smart card (contact and contactless/NFC), **compatible with FIDO2 and FIDO U2F standards** and **certified FIDO2 L2**. It provides a strong and simplified authentication solution for the web and the cloud. It offers all professionals easy-to-deploy security solutions in both mobile and desktop environments.

- ✓ Easy to use and deploy (HID device: no driver required)
- ✓ Credential generation, management and storage Inside the smart card
- ✓ Anti-Phishing protection (to replace vulnerable SMS or OTP solutions)
- ✓ No “key wrapping” / No shared key preinstalled
- ✓ Graphical personalization

Interface(s)

- Contact ISO/IEC 7816
- Contactless / NFC ISO/IEC 14443-A & DESFire EV2/EV3
- Contactless / NFC options: ISO 15693 and 125 KHz

Smart card

- Certified Common Criteria EAL6+

Supported operating systems

- Windows, 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:
 - credBlob
 - largeBlobKey
 - minPinLength
 - pinUvAuthToken
 - noMcGaPermissionsWithClientPin
 - setMinPINLength
 - ep - Enterprise Attestation
 - authnrCfg
 - credMgmt
 - largeBlobs
 - makeCredUvNotRqd
 - alwaysUv

Supported crypto-algorithm

- ECC P-256 (secp256r1)

Dimensions and weight

- Length 85.6 mm / width 54 mm / height 0.76 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.