



# Badgeo NFC FIDO2

FIDO2 & FIDO U2F NFC card



Web / cloud strong authentication solution



- 1 NFC smart card certified Common Criteria EAL6+
- 2 Credential generation, management and storage inside the smart card
- 3 Easy to use and to deploy (no software installation required)
- 4 FIDO2 compatible with Windows 10 /11, Azure Active Directory,...
- 5 FIDO U2F compatible with Gmail, Google Apps for Work, Facebook, Dropbox,...



### Card features:

- Full compatibility with Windows, Android and iOS
  - Credential generation, management and storage inside the smart card
  - Credential number limited by the quantity of available persistent memory
  - Anti-Phishing protection (to replace vulnerable SMS, OTP or TOTP solutions)
  - No “key wrapping” / No shared key preinstalled
  - Graphical personalization
- Supported protocols:
    - Contactless ISO/IEC 14443-A, DESFire EV2
    - ISO 15693 (contactless)
  - Supported crypto-algorithm:
    - ECC P-256 (a.k.a. secp256r1)

### FIDO2.0 / FIDO2.1 features:

- Extensions:
  - credProtect
  - hmac-secret
- Options :
  - rk (resident keys) - Discoverable credentials
    - Maximum number limited by available persistent memory (256 to 512 bytes per credential)
  - clientPIN, PIN protocol 1
    - PIN value length between 4 and 63 bytes
    - PIN try limit set to 8. After 8 unsuccessful tries, the authenticator must be reset
    - No default value

### FIDO2.1 features:

- Extensions
  - credBlob (personalization option)
  - largeBlobKey (personalization option)
  - minPinLength (personalization option)
- Options :
  - clientPIN, PIN protocol 2
    - PIN value length between 4 Unicode characters and 63 bytes
  - pinUvAuthToken
  - noMcGaPermissionsWithClientPin (personalization option)
  - largeBlobs (personalization option)
  - ep - Enterprise Attestation (personalization option)
  - authnrCfg
  - credMgmt (personalization option)
  - setMinPINLength (personalization option)
  - makeCredUvNotRqd (personalization option)
  - alwaysUv (personalization option)

### Mechanical features:

- Size: Length 85.60 mm / Width 53.98 mm / Thickness 0.76 mm / Weight: 5g

### About FIDO (Fast IDentity Online):

FIDO2 is the latest specification from the FIDO Alliance, which brings together major technology players (Google, Microsoft, Amazon, Paypal, Visa and MasterCard, etc.). It enables users to easily authenticate without password to online services in mobile and desktop environments. FIDO2 is natively integrated into Azure Active Directory (Azure AD) and Windows 10 / 11. The FIDO U2F protocol is a second authentication factor.

### About NEOWAVE:

NEOWAVE is an innovative French company, created in 2007, specializing in strong authentication and secure transactions. NEOWAVE products combine the high level of security provided by smart cards with the advantages of connectivity and storage technologies: USB, RFID / NFC and Bluetooth Low Energy (BLE). NEOWAVE products and services address the cybersecurity, digital trust and identity management markets.



# NEOWAVE

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