

Badgeo HYB FIDO2 + QSCD

**FIDO2 + PKI contact and NFC smart card
Passwordless**



CYBERSECURITYTM
MADE IN EUROPE



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

- ✓ ISO 7816 contact interface
- ✓ Smart card certified Common Criteria EAL6+
- ✓ FIDO2 (CTAP 2.1) + FIDO U2F applications, FIDO2 L2 certified
- ✓ eIDAS-certified PKI/QSCD applet
- ✓ Middleware SafeSign Identity Client
- ✓ Contactless / NFC interfaces: MIFARE, DESFire EV2/EV3, ISO 15693 and 125 KHz

FIDO2 + 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



Smart card

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



Wide compatibility

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



Badgeo HYB FIDO2 + QSCD is a contact and contactless smart card made in Europe, designed to provide strong authentication. It integrates an **eIDAS QSCD-certified PKI applet** and a **FIDO2 (CTAP 2.1) and FIDO U2F applet** and is **FIDO2 L2 certified**. Badgeo HYB FIDO2 + QSCD thus allows users to benefit from high-quality logical security solutions as well as an extremely reliable qualified digital signature solution, while remaining easy to use.

- ✓ Meets European security requirements (eIDAS, QSCD, NIS, PSD2...)
- ✓ Physical access with MIFARE, DESFire EV2/EV3 and ISO 1569
- ✓ Protection against phishing and preservation of the integrity of electronic documents
- ✓ No “key wrapping” / No shared key preinstalled

Interface(s)

- Contact: ISO 7816
- Contactless / NFC: MIFARE, DESFire EV2/EV3, 15693 and 125 KHz

Smart card

- Certified Criteria Common EAL6+

Supported Operating Systems

- QSCD: Windows, Mac OS, Linux
- FIDO: Windows

Browsers

- Edge, Firefox, Chrome, Safari

QSCD features

- Supported crypto-algorithms:
 - 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

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

Dimensions and weight

- Size: length 85.6 mm / width 54 mm / height 0.76 mm
- Weight: 5 g



About NEOWAVE and AET Europe

NEOWAVE and AET Europe solutions address the cybersecurity, digital trust and Identity Access Management markets. NEOWAVE is a French company, 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).

AET Europe is a Dutch company, developing software solutions for user identification, authentication and digital signatures. AET Europe products are SafeSign IC, BlueX Certificate Management and ConsentID.

NEOWAVE

Pôle d'activités Y. Morandat, 1480 avenue
d'Arménie, 13120 Gardanne - France

+33 (0)4 42 50 70 05

contact@neowave.fr

www.neowave.fr



aet europe

IJsselburcht 3, NL-6825 BS Arnhem,
The Netherlands

+31 26 365 33 50

sales@aeteurope.com

www.aeteurope.com