

# Crescendo® Key v3

Strengthen your security posture with open standards for passwordless, phishing-resistant authentication with FIDO and/or PKI.

Enhance employees' experience without compromising on security with the Crescendo Key v3 — a modern, redesigned security key for passwordless access to workstations and laptops without the need for additional readers. Simplify deployment and management using passkeys and/or certificate-based authentication with either a shared PIN or isolated PINs for FIDO, PKI and OATH.

The new Crescendo Key v3 is FIDO2 certified and compliant with NIST SP 800-73 for logical access. It utilizes Near Field Communication (NFC) and USB-C or USB-A (coming soon) connectivity for secure access to computer, network, cloud, data encryption, digital signature and more.

Additionally, the updated version of the Crescendo Framework gives partners and customers the flexibility to customize the key to address their specific needs, including personalizing logical access technology configurations. It is also fully compatible with third party and HID credential management systems.

The Crescendo Key v3 is part of the Crescendo product line, which includes smart cards and readers — refer to the HID Crescendo page for more information.

## DIVERSE ECOSYSTEM SUPPORT

- **Crescendo Minidriver:** Seamlessly enables Crescendo Keys to work within the Microsoft ecosystem
- **Crescendo CryptoTokenKit (CTK):** Seamlessly enables Crescendo Keys to work within the Apple ecosystem
- **Microsoft Minidriver and MacOS CryptoToken:** For broad PKI support by major platforms and modern applications
- **Crescendo SDK and Command Line Interface (CLI):** Enables customers, partners and other third parties to easily and simply integrate support for the Crescendo family into their products and ecosystem
- **PKCS#11:** Version 2.40 support on various platforms
- **ActivClient:** Fully supported by the HID ActivID ActivClient Middleware
- **Crescendo Manager:** Empowers technical staff and users to configure, manage and test Crescendo devices (smart cards and security keys)
- **Enterprise-Grade Credential Management:** Provision, reset, and manage the lifecycle of FIDO and certificate-based Crescendo devices with the Credential Management System (CMS) or Enterprise Passkey Management (add link to product page), for organizations looking for a large-scale security implementation and for highly regulated industries.



## KEY BENEFITS:

- **Easy and Convenient:** Passwordless, phishing-resistant authentication that is as easy as tapping a card, without the need for additional reader hardware or to remember more than one PIN for the same device
- **Secured Investment:** The remote PIN recovery and device unlock capabilities eliminate the need to replace the key in case the PIN is forgotten, or the device is locked. This can be done via the Crescendo Manager or the HID Credential Management System (CMS)
- **Updated Crescendo Framework:** Cut complexity and reliance on HID to specify key configuration with one out-of-the-box profile for logical access and the flexibility to customize the key to address your needs
- **More Capacity for PKI Certificates and FIDO Resident Keys:** Maximize your investment with one security key that provides passwordless authentication for multiple applications
- **Improved Speed and Memory:** Faster key issuance, quicker key generation and greater computational power to support stronger security encryption algorithms

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## ADDITIONAL PRODUCT FEATURES:

- NFC for mobile device and contactless readers
- Standalone profile, ready to use with predefined configuration supporting FIDO, PKI and OATH (without additional software)
- Secure managed profile via the Credential Management System for enterprise use or PIV compliance

## CRESCEDO CONFIGURATIONS:

- One standard profile, ready to use with customizable configurations available based upon specific customer needs
- Support for OATH, FIDO2 and PIV
- Support for shared or separate PINs for FIDO, PKI and OATH

<b>Base Model Number</b>	Crescendo Key v3
<b>Base Part</b>	BKA306P100 (Type A) BKN306P100 (Type C)
<b>HID APPLET V4.0 LOGICAL ACCESS (LACS) SECURITY SERVICES</b>	
<b>PKI/PIV</b>	PIV card edge according to NIST SP 800-73 Up to 40 PKI Key slots
<b>FIDO U2F</b>	Unlimited non-resident keys
<b>FIDO2 CTAP2.1</b>	Up to 30 FIDO Resident Keys (unlimited non-resident keys)
<b>OATH</b>	up to 16 slots (TOTP or HOTP or OCRA)
<b>PIN</b>	Configurable Shared Pin (among PKI, FIDO and OATH) Configurable User PIN length min/max Configurable User PIN retry max Configurable Unlock retry max Configurable Numeric PIN only enforcement
<b>Secure Key Injection</b>	SKI mechanism compliant with Windows Minidriver API SKI transport Key: RSA -3072-bit SKI Session: AES 128-bit
<b>Certifications</b>	FIDO2 CTAP 2.1 L1 FIDO2 CTAP 2.1 L2 (under evaluation) FIPS 140-3 Level 3, validation in progress
<b>HOUSING</b>	
<b>Dimensions</b>	Type A: 1.96 x 0.71 x 0.27 inches (50.0 x 18.0 x 7.0 mm) Type C: 1.81 x 0.71 x 0.24 inches (46.0 x 18.0 x 6.0 mm)
<b>Weight</b>	0.18 oz (5g)
<b>Operating Temperature</b>	32° to 104° F(0°C to +40°C), 85% RH non-condensing
<b>IP rating</b>	IP65
<b>Construction</b>	Long-Life composite (ABS-PC)
<b>SECURE ELEMENT</b>	
<b>Processor</b>	NXP JCOP 4.5 P71D600
<b>Memory</b>	Data retention time: 25 years
<b>Operating System</b>	JavaCard Standard 3.0.5 Classic
<b>Certification</b>	Common Criteria EAL 6+ FIPS 140-3 overall level 3 (Certificate Number 4679)
<b>Cryptographic Algorithms</b>	3DES: 3 keys (CBC and ECB) (Legacy only) AES: (128-,192-, 256-bit) (CBC and ECB) RSA: (2048-, 3072-, 4096-bit) ECC: (P-256, P-384 bits) HMAC-SHA1, HMAC-SHA2 (256-, 512-bit)
<b>INTERFACE</b>	
<b>Human</b>	Bi-color indicator shows the status on the device and aids in diagnostics troubleshooting Single-touch capacitive button for user proof of presence
<b>Device Type</b>	HID Keyboard, CCID Smart Card, FIDO HID Device
<b>USB</b>	USB 2.0 powered device – 12Mbps
<b>NFC</b>	ISO 14443 contactless interface compatible with NFC (T-CL)
<b>MIDDLEWARE &amp; OS &amp; TOOLING</b>	
<b>Middleware</b>	Microsoft Inbox PIV Minidriver PKCS#11 library (Windows, Mac, Linux) Apple CryptoTokenKit Compatible with third party OS PIV Implementations HID MiniDriver to allow CNG applications
<b>Supported OS</b>	iOS, Android, Windows, Linux, macOS, Chrome OS, iPadOS
<b>Tools</b>	Crescendo SDK Crescendo Manager
<b>COMPLIANCE AND REGULATORY</b>	
<b>Regulations</b>	CE, FCC, WEEE, ROHS, Reach
<b>Warranty</b>	One-year manufacturer's warranty
<b>Options</b>	Customer-specific logo available upon request



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