

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

CRESCENDO 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



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Base Model Number	Crescendo Key v3
Base Part	BAKA306P100 (Type A) BKN306P100 (Type C)
	HID APPLLET V4.0 LOGICAL ACCESS (LACS) SECURITY SERVICES
PKI/PIV	PIV card edge according to NIST SP 800-73 Up to 40 PKI Key slots
FIDO U2F	Unlimited non-resident keys
FIDO2 CTAP2.1	Up to 30 FIDO Resident Keys (unlimited non-resident keys)
OATH	up to 16 slots (TOTP or HOTP or OCRA)
PIN	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
Secure Key Injection	SKI mechanism compliant with Windows Minidriver API SKI transport Key: RSA -3072-bit SKI Session: AES 128-bit
Certifications	FIDO2 CTAP 2.1 L1 FIDO2 CTAP 2.1 L2 (under evaluation) FIPS 140-3 Level 3, validation in progress
	HOUSING
Dimensions	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)
Weight	0.18 oz (5g)
Operating Temperature	32° to 104° F(0°C to +40°C), 85% RH non-condensing
IP rating	IP65
Construction	Long-Life composite (ABS-PC)
	SECURE ELEMENT
Processor	NXP JCOP 4.5 P71D600
Memory	Data retention time: 25 years
Operating System	JavaCard Standard 3.0.5 Classic
Certification	Common Criteria EAL 6+ FIPS 140-3 overall level 3 (Certificate Number 4679)
Cryptographic Algorithms	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)
	INTERFACE
Human	Bi-color indicator shows the status on the device and aids in diagnostics troubleshooting Single-touch capacitive button for user proof of presence
Device Type	HID Keyboard, CCID Smart Card, FIDO HID Device
USB	USB 2.0 powered device – 12Mbps
NFC	ISO 14443 contactless interface compatible with NFC (T=CL)
	MIDDLEWARE & OS & TOOLING
Middleware	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
Supported OS	iOS, Android, Windows, Linux, macOS, Chrome OS, iPadOS
Tools	Crescendo SDK Crescendo Manager
	COMPLIANCE AND REGULATORY
Regulations	CE, FCC, WEEE, ROHS, Reach
Warranty	One-year manufacturer's warranty
Options	Customer-specific logo available upon request