



uTrust MD Smart Card

Certificate-Based Public Key Infrastructure (PKI)
Credential for Microsoft® Minidriver (MD)



Hirsch's uTrust MD Smart Card series provides a comprehensive solution for converged physical and logical access control.

uTrust MD Smart Cards are Microsoft Minidriver-Certified and provide out-of-the-box, standards-compliant support for computer security applications. The smart cards come complete with on-card software and compatible drivers and are pre initialized with the required keys and settings needed to get up-and-running from the start.

uTrust MD Smart Cards are fully compatible with Microsoft's Smart Card Base CSP. This CSP is a cryptographic service provider integrated into the Microsoft Windows operating system, enabling Minidriver-compatible smart cards to support Microsoft-compatible security applications, including Windows Domain Log-On, VPN, Outlook® email signing and encryption, secure web access, and Wireless LAN authentication. Compatibility also ensures support for a variety of smart card management systems (CMS) and Certificate Authorities (CA).

The smart cards are recognized by a Minidriver module loaded onto the user's computer. Installation is available through a standard Windows update or via identiv.com. Once installed, uTrust MD Smart Cards are immediately functional in the Windows OS environment. The smart cards can be enrolled with PKI certificates and keys through the Windows Certificate Manager Tool (Certmgr.exe) or any chosen CMS client. The user PIN can be set up using Windows or any other Minidriver Compatible utility.

uTrust MD Smart Cards are available in a wide range of versions, including dual-interface, contact, contactless, or physical access credentials compatible with various legacy technologies, such as HID® Prox™, Casi®, Indala®, MIFARE Classic®, MIFARE® DESFire® and others on request (i.e., HID® iClass™).

Plug and Play

- Ready-to-use off the shelf and fully compatible with Microsoft Windows Smart Card Framework (WSF)

Turnkey Compatibility

- Supports existing Microsoft-compatible logical access security applications, including Windows Domain Log-On, VPN, Outlook® email signing and encryption, secure web access, Wireless LAN authentication, and VPN

Converged Access

- Combines digital certificate-based PKI smart cards with physical access credentials, including 13.56 MHz and 125 KHz proximity



Hirsch uTrust MD Series Technical Specifications

Support Operating Systems (Computer Side)	Windows 10, Windows 8.1, Windows 7, Windows Server 2012/R2 and Windows Server 2008/R2
Smart Card Standards	ISO/IEC 7810 (for the physical characteristics), ISO/IEC 7816 compatible, ISO/IEC 14443 for high frequency compatible version, and low-frequency 125 KHz also available
Supported Specifications	Microsoft Smart Card Minidriver, Java Card, and Global Platform
Processor	NXP SmartMX™ with PKI crypto processor
Memory	<ul style="list-style-type: none"> • Up to 24 key slots (RSA 2048) • 80 KB total EEPROM • 32 KB PKI data (certificates and keys) • Data retention time: 25 years • Endurance: 500,000 cycles minimum
Certifications	RSA 1024/2048 with CRT parameter for private key operations
PIN/Key Policies	<ul style="list-style-type: none"> • User PIN length minimum/maximum • User PIN retry maximum • Admin key retry maximum
Security	Secure chip accredited to Common Criteria EAL5+
Industry-leading reader compatibility	Velocity Cirrus and the Hirsch platform accommodates an incredible range of reader industry-standard hardware, including Wiegand and OSDP readers, biometric readers, and readers to accommodate a variety of credential formats

Supported Physical Access Control Systems (PACS) Formats

13.56 MHz	<ul style="list-style-type: none"> • MIFARE Classic • MIFARE Plus EV1 • MIFARE DESFire EV1 / EV2 • HID iCLASS, iCLASS SE and Seos • Hirsch's TS Card options
125 KHz Proximity	HID Prox-compatible, plus more than 30 supported proximity formats, including HID Prox Compatible, H10301, H10306, and C1000 (others available on demand)
Magnetic Stripe	Optional

Part Number	Description
20-011	uTrust V1.0 80K MD Contact Smart Card with 125 KHz Proximity
20-019	uTrust V1.0 80K MD Dual Smart Card with MIFARE Classic 1K and 125 KHz Proximity



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