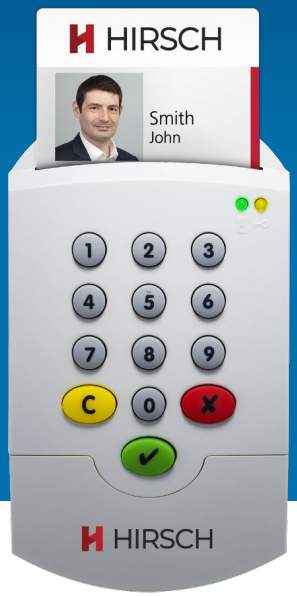
HIRSCH

# SPR332 v2.0

## Secure Class 2 PIN Pad Reader




Hirsch's SPR332 v2.0 Secure Class 2 PIN Pad Reader allows securely executed authentication processes within the device, protecting the entered data from various attacks. The reader supports secure e-commerce, e-health, and similar applications when securing private data is the key.

The extended card data transmission rate of up to 600 kbps with the support of TA1=97 enables the shortest possible transaction time for maximum end-user convenience. The Hirsch-specific SmartOS™ features easy and complete support of all major contact smart cards. The Hirsch driver platform and Windows® Plug-and-Play driver support allow seamless integration into any end-user environment with very little or no administration.

With SPR332 v2.0, the end-user experiences convenience, transaction-time efficiency, security, and reliability for applications including digital signature, authentication and verification, and other applications requiring secure PIN entry.

### SECURE PIN ENTRY

- Prevents unauthorized access while connected to the network

### APPLICATION READY

- Supports all major smart card ICs and technologies in just one device

### FAST

- Transaction time optimized for maximum end user acceptance

### CONVENIENT

- Robust user friendly design, with tamper evident casing

### SMARTOS™ POWERED

- Field upgradable firmware

# Specifications

| PARAMETER | SPR332 V2.0 |
|---|---|
| **HOST INTERFACE** | |
| **HOST INTERFACE** | USB 2.0 CCID (USB 1.1/3.0 compliant) |
| **COMMUNICATION SPEED** | 12 Mbps (USB 2.0 full speed) |
| **SMART CARD INTERFACE** | |
| **SUPPORTED STANDARDS** | ISO/IEC 7816 Part 1 to 4 |
| **SUPPORTED TAG ICS** | All major ISO/IEC 7816 compliant smart card IC support |
| **PROTOCOLS** | T=0, T=1 |
| **INTERFACE SPEED** | · Up to 600 kbps (depending on card) · TA1=97 |
| **CLOCK FREQUENCY** | · ISO/IEC 7816 compliant up to 5 MHz · Operates up to 12 MHz |
| **SUPPORTED SMART CARD TYPES** | 5V, 3V and 1.8V, ISO/IEC 7816 Class A/B/C |
| **POWER TO SMART CARD** | 60mA in Class A, 55mA in Class B, 35mA in Class C |
| **SMART CARD DETECTION** | · Card present switch · Automatic power on/off · Short circuit protection |
| **CARD SIZE** | ID-1 |
| **CONTACT TYPE** | Landing contact |
| **PC/SC DRIVER** | PC/SC Specification Ver. 2.01.14 for: · Windows® XP/Vista/7/8/10 (32 / 64 bit) / Windows® Server 2008/2012/2016 · Windows 10 Enterprise Device Guard compatible · MacOS 10.10.x - 10.15.x · Linux 2.4.x, 2.6.x, 3.x, 4.x, 5.x (32 / 64 bit) · Android 4.0 and higher |
| **HUMAN INTERFACE** | · Dual LED and buzzer indicating status · 3x4 +1 keypad · Tamper evidence |
| **SOFTWARE** | · PC/SC API · CT-API (through wrapper on top of PC/SC) · Synchronous-API (through wrapper on top of PC/SC) · M-Card API (through wrapper on top of PC/SC) · Hirsch Android CCID library · ActivClient with latest hotfixes |

# Specifications

| PARAMETER | SPR332 V2.0 |
|---|---|
| **OPERATING CONDITIONS** | |
| POWER SUPPLY | <12mA, excluding smart card, <800µA in standby mode |
| DIMENSIONS | 120 x 70 x 40 mm |
| WEIGHT | 250 g |
| OPERATING TEMPERATURE RANGE | 0° to 50° C (32° to 122° F ) |
| STORAGE TEMPERATURE RANGE | -20° to 60° C (-4° to 140° F) |
| OPERATING HUMIDITY RANGE | Up to 95% RH non-condensing |
| DURABILITY | Landing contact 200,000 card insertions |
| MTBF | 500,000 hours |
| CABLE AND CONNECTOR | USB cable 1.50 m long with type A connector |
| FIRMWARE | SmartOS™ |
| FIRMWARE IN-FIELD UPGRADEABLE | Yes |
| CERTIFICATIONS/COMPLIANCES | |
| SYSTEMS/STANDARDS | EMV 2011 Ver 4.3 Level 1 (ready, pending approval), ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL |
| REGULATORY/ENVIRONMENTAL | CE, FCC, UL 60950, RoHS2, REACH, WEEE |
| ORDERING INFORMATION | |
| PRODUCT PART NUMBER | 905127-1 |