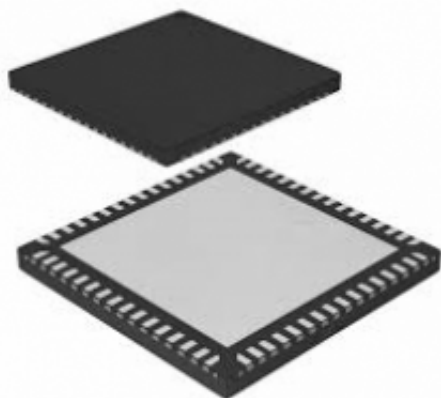

IDBridge CR10 - Reader chipset for Keyboards



Brand: Gemalto
Product Code: SMAGCR10

Short Description

Create a smart card reader in your keyboard

Description

ID Bridge CR10 is the latest generation of integrated solutions for keyboards supporting smart card readers. It is based on world-renowned GemCore technology. CR10 has been chosen and widely deployed by key players in the PC market. It supports the smart card interface, the keyboard management as well as the USB communication in one single chip. More than six million units have been deployed.

Applications

- Logical access control
- Secure logon
- Physical access control
- Home banking
- Ecommerce
- Healthcare

The IDBridge CR10 is compliant with the standards including:

- ISO7816 and EMV2000

- Microsoft Driver Certification (WHQL)
- PC/SC V2 part 10 for Secure Pin Entry
- USB 2.0 and CCID 1.1 > EMV level 1
- CC EAL3+ (Secure pin entry)

Product architecture and customization

Because the ID Bridge CR10 manages the keyboard matrix, this part will be customized for each keyboard to take into account the specific key positions (row/column), the LEDs, the hot keys (optional), the identifiers and the USB descriptors. This customization is developed by Gemalto upon request and samples are delivered quickly.

Technical specifications

Communication interfaces • Smart card • Access to all ISO 7816 and EMV microprocessor cards (T=0, T=1) through PC/SC drivers • Communication speed with the smart card: up to 826Kbds (when supported by the SC) • Synchronous cards through a comprehensive API • 5V/55mA, 3V/50mA, 1.8V/20mA smart card power supply • Full ISO7816 and EMV2000 compliances • Short circuit protection • Card removal detection when powered on • ESD protection on card IOs: 8KV contact • Host • USB 2.0 full speed • Hub less, composite device • USB powered • Keyboard matrix • Up to 160 keys and hot keys (optional) • Standard keyboard LEDs • PC/SC V2 Secure Pin Entry features, 1 led to indicate SPE is active Drivers • Windows PC/SC Drivers: • XP, Server 2003, Vista, Server 2008, Seven • Vista Microsoft CCID class driver compliant • Windows 7 • Windows 8 and 8.1 • Windows CE Bridges on top of PC/SC for 32 and 64 bit editions: • CT/API based on MCT/BCS specs • Synchronous API • Linux • PC/SC Driver • Compliant with number of Linux distributions • CCID class driver compliant (free software) • Mac OS • 8 KV contact • Other OS • CILK library (free Gemalto CCID source code) Temperature • Storage • -40°C to +85°C • Operation • 0°C to +70°C Component type • QFN64 Environmental standards • RoHS and REACH Technical package • Technical specifications and reference manual • Support to hardware design and validation • Smart Diag for deployment diagnostic • Support to EMV approval and WHQL signature (optional)

Product Gallery

