thalesgroup.com

THALES

IDBridge CR10

Create a smart card reader in your keyboard

ID Bridge CR10 is the latest generation of integrated solutions for keyboards supporting smart card readers. It is based on worldrenowned 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

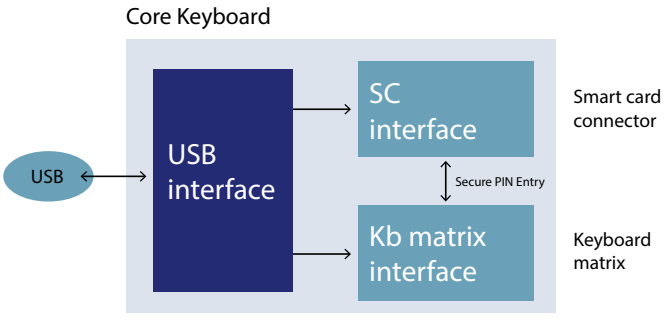
The IDBridge CR10 is compliant with the standards including:

- 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

Product Architecture & 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 Thales upon request and samples are delivered quickly.



About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.

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	Operating Systems	• Up to Windows 10 (including Windows 8.1) • Linux • Mac OS Drivers available at Thales Customer Support Portal
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)

> thalesgroup.com <

Americas – Arboretum Plaza II, 9442 Capital of Texas Highway North, Suite 100, Austin, TX 78759 USA • Tel: +1 888 343 5773 or +1 512 257 3900 • Fax:+1 954 888 6211 • E-mail: sales@thalesesec.com
Asia Pacific – Thales Transport & Security (HK) Lt, Unit 4101-3, 41/F, Sunlight Tower, 248 Queen's Road East, Wanchai, Hong Kong • Tel:+852 2815 8633 • Fax:+852 2815 8141 • E-mail: asia.sales@thales-esecurity.com
Europe, Middle East, Africa – 350 Longwater Ave, Green Park, Reading, Berkshire, UK RG2 6GF • Tel:+44 (0)1844 201800 • Fax:+44 (0)1844 208550 • E-mail: emea.sales@thales-esecurity.com