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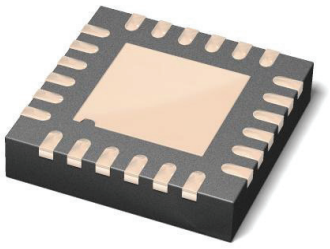
IDBridge CR30

Integrated Solution for EMV & Multi-Smart Card Architectures

- Up to 2 card interfaces capability
- Smart card transfer rate: up to 826 Kbds (if supported by the smart card)
- Compatible with all microprocessor and memory cards, EMV & non-EMV cards
- Both USB and serial links available for the host interface
- EMVCo/EMV2000 4.2 and PBoC compliant
- Very small sized component: QFN24
- Few external components to add (no external oscillator)
- Efficient development tools and easy certification means short time-to-market



IDBridge CR 30

Overview

IDBridge CR30 is the ultimate step for multiple smart card reader architectures. Thanks to Gemalto know-how in silicon conception and to 15 years of experience in development of readers, the Gemalto technology now reaches the highest level of integration.

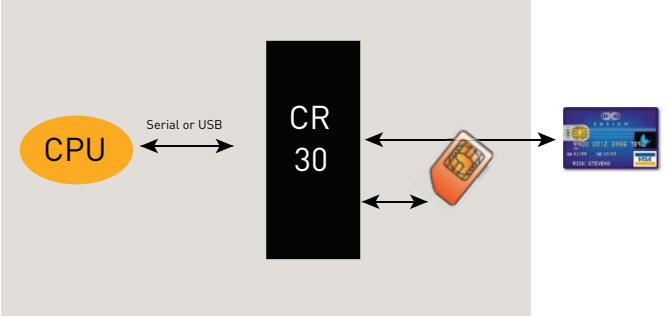
IDBridge CR30 is a single chip product dedicated to applications requiring quick time-to-market, performances, EMVCo Type Approval and/or multiple interface capibilities.

Applications

Whether EMVCo is mandatory for your application or not, the IDBridge CR30 is recommended for any systems needing to interface with smart cards and which is requiring small footprint, quick time to market and optionally up to 2 smart card interfaces. Typical applications are payment, security and identity.

Compliance with standards

- ISO/IEC 7816-1, 2, 3, 4:Integrated circuit cards with contacts
- EMV Level 1:EMV2000 specifications version 4.2
- PC/SC part 10 compliance
- WHQL compliance
- PBOC compliance
- RoHS and REACH



TECHNICAL SPECIFICATIONS

Supported smart cards	Asynchronous	• Microprocessor cards • T=0, T=1 protocols • Transmission rate: up to 826 Kbps (TA1=17@ CK=4.8MHz)
	Synchronous	• Through the Command Interpreter
Smart card electrical interface	Smart card power supply	• 5V and 3V and 1.8V • Short circuit current limitation • Power up / power down control sequences
	Smart card management	• Card insertion/extraction detection
	ESD protection on card I/O	• 8 KV contact
GemCore chip power supply	Voltage	• 4.6 V to 5.4 V
	Power down	• Less than 500 µA power down current
Serial host interface	Serial asynchronous link	• Transmission rate: 9.6 Kbps to 115 Kbps • Format: 8 bits, no parity
	Communication protocol	• CCID V1.0 on serial TTL link
USB host interface	USB 2.0 compliant	• CCID V1.1 • Full speed 12Mbps, hubless • Multi-slot driver for Windows
Other features	Temperature range	• Operating range: 0°C to +70°C • Storage: -65°C to +150°C
	Packaging	• QFN24 component package
	Environmental	• RoHS and REACH compliant

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