SCL3710

NFC USB Dongle Reader

Overview

The SCL3710 from SCM Microsystems is a small and robust USB-based contactless reader in a Dongle form-factor.

It eases the use of NFC-enabled mobile devices such as mobile phones or PDA's, while ensuring security for contactless payment and financial applications (electronic wallet). Information that have been transferred on these mobile devices, e.g. product, entertainment and customer loyalty information from posters, coupons or vouchers, can now within seconds be conveniently accessed and transferred to a PC or notebook using NFC technology.

The SCL3710 is for instance ideal for interfacing with NFC-enabled mobile phones when plugged into a PC connected with systems such as PoS (Point-Of-Sales) terminals, vending machines, access terminals, parking meter payment machine, etc.

It can be used in areas such as mobile smart-ticketing, data exchange, virtual connections, and in various sectors of ticketing and secure payments for public transportations, entertainment and other relevant industries.

The USB Dongle uses the characteristics of the Near Field Communication technology, enabling convenient wireless short-range communication between electronic devices.
It is based on the 13.56 MHz radio frequency (RF technology) and supports ISO 14443 Type A cards, Sony developed FeliCa™tags, and NXP Semiconductors' NFC tags.

The SCL3710 offers a range of new NFC technology applications and eases the spread of NFC technology.

SCL3710 Benefits

- Cost effective single-chip solution
- Compact and sleek design
- High performance
- Secure payments with contactless mode in very close proximity only
- Supports FeliCa tags, NXP Semiconductors NFC-IP1 compliant devices, ISO 14443 Type A cards (MIFARE® contactless chip technology) and active communication modes
- Direct T=CL support through proprietary API
- Optional: Additional cap for clipping the device for easy carrying and shielding the USB connector from dust and dirt.
- Customization options: Casing, colours and logo

SCL3710

Technical Data

Host Interface	• Full speed USB (12Mbps) • Low USB bus powered device • Current: 20mA (idle), 300uA (suspend), 80mA (normal) • USB A-Type connector
Contactless Interface	• ISO14443-4 (T=CL) protocol support • Communication speeds: 106 kbps, 212 kbps and 424 kbps. • Meets ISO/IEC 18092, ISO 14443 A (at 13.56 MHz) • Operating distance: 0 to 3mm • Supports NFC-IP1 devices, FeliCa & MIFARE® interfaces • Supports both passive and active communications
Operating Temperature	• 0 to 50 Celsius
Dimensions	• LWH 80 x 20 x 10mm
Approvals	• FCC Class B part 15, CE, VCCI, cULus • USB
Environmental	• RoHS • WEEE

Technical data are subject to change without notice.

Availability

• Samples: Limited and available upon request
• Production: Expected in Q2/2008 (subjected to change with demand)

The SCM Microsystems' Advantage

SCM Microsystems brings over a decade of experience in ASIC and smart card reader development to this unique product. With its dedicated Research and Development team, and a true global presence, SCM Microsystems delivers high quality products catering to the various requirements in the security field. SCM offers customization of products to suit application needs.

Typical advantages of an SCM Microsystems product includes:

• More than 50 patents

• High quality mass production capability

• Industry endorsed SmartOS™ middleware

• Support for all current and emerging international standards

• Customer base of global, top tier PC OEMs, systems integrators and smart card
  industry leaders

• Direct significant long-term relationships with all leading smart card manufacturers
  and application providers

Photo: Philips