

Hand'IT™ -2G

Compact Flash type I multi-standard,
13.56 MHz contactless reader for PDAs

Features

- ISO 14443 A&B, ISO 15693 and FeliCa™
- CF type I extended form factor with built-in antenna
- Use with any laptop or pocket PC with type I or II CF slot
- Operating distance: up to 4 cm
- Compatibility with Windows® 98/XP/Me/2000/Pocket PC 2002/2003/Mobile™ 2003/CE.NET 4.2
- Cryptographic security management
- Integrated support for SAM module
- High speed communication rate emulating standard COM port
- Plug&play functionality
- Low power for longer battery life
- Evaluation kits available

Typical applications

- Passport & visa verification
- Transport ticket verification
- Data collection
- RFID tags reading/writing
- Counterfeiting protection
- Prepaid applications

Hand'IT™-2G is a compact flash module with an advanced 13.56 MHz contactless reader, designed to operate with any laptops and PDAs running Microsoft Windows® 98/XP/Me/Pocket PC 2002/2003/Mobile™ 2003/CE.NET 4.2.

Hand'IT-2G module is compatible with CF card slot types I and II enabling communication with INSIDE's contactless PicoPass™ and PicoTag™ chips and other contactless chips and contactless readers.

Product characteristics

Plug-and-play functionality: no need to download additional drivers to operate a PDA as a secure contactless reader.

Multi-standard: Hand'IT-2G works with ISO 14443A/B and 15693 communication standards and also communicates with FeliCa™ chips.

Secure: Hand'IT-2G provides state-of-the-art security, including secret key management and cryptographic calculations that enable secure authentication and communication with a contactless transponder.

Security application module: a slot for a SAM module (SIM format) is integrated in the coupler to support the external security management.

Reader to Reader communication: Hand'IT-2G can communicate with any of INSIDE's couplers, as well as other RF readers. In a reader to reader mode Hand'IT-2G acts as a transponder, enabling the transfer of stored data to any other PDA or laptop through an RF interface.

Low power consumption: batteries last longer thanks to a number of power-saving modes.

Applications

Hand'IT-2G has been designed for use in a smart card and RFID environment.

Connected to a PDA, Hand'IT-2G can be used as a universal portable terminal for individual ID checking and for a far validation in transport applications.

Hand'IT-2G can also be used in logistic applications to collect data or to prevent counterfeiting by the identification of high-value object.

Order reference

Hand'IT-2G /F

with ISO 14443 A/B, 15693 and FeliCa™

Kits offer

Product

Hand'IT™-2G Kit

Description

Hand'IT™-2G Kit allows developers to evaluate INSIDE's technology and makes subsequent integration a straightforward experience.

Key technical data

Electrical characteristics

Idle/standby current

5mA/0mA

RF active current

< 50 mA @ 3,3 V

General specifications

RF operating frequency

13.56 MHz

Operating temp°

-20°C to + 70°C

Operating distance

up to 4 cm

Anti-collision management

yes

Antenna

built-in

Internal security

built-in

External security

SAM support

RF modulation index

10% or 100%

Interfaces

Host interfaces

PCMCIA/Compact Flash

Baud Rate

default 115.2 kbps

ISO standards

14443 A/B, 15693 and FeliCa™

Operating systems compatibility

Windows® 98/XP/Me/2000/Pocket PC 2002/2003/
Mobile™ 2003/CE.NET 4.2

Hand'IT™-2G module block diagram

