

# Contactless Smart Card Reader with Plug-and-Play Functionality



## Orbit iD

- Contactless smart card NFC reader
- CCID compliant
- Reader range of up to 70mm
- USB connectivity
- LED indicators
- UK manufacturing and support

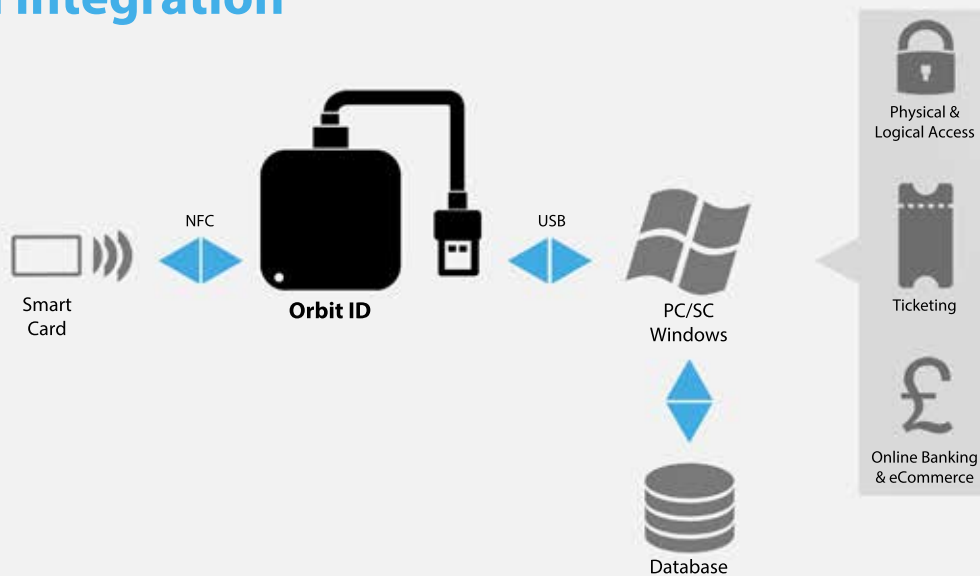
# Product Overview

Orbit iD is a contactless smart card reader/writer with CCID plug-and-play functionality. It is designed for identification, authentication, access control, cashless payment, loyalty and other applications. Employing 13.56 MHz NFC technology, it offers fast and secure wireless communication with smart cards, fobs and wristbands.

Housed in newly-designed semi-transparent casing, it features a sizeable card landing zone for enhanced ease of use. The minimalistic design fits well into any environment, from modern corporate offices to industrial sites, and is robustly built for daily public use. Orbit iD boasts an impressive 70mm card reader range due to a built-in oversized antenna.

Installing the reader is effortless with plug-and-play functionality on Windows and other operating systems through the CCID standard. Once connected via USB to a computer, Orbit iD is automatically installed and ready to function via PC/SC. The CCID protocol ensures compatibility with a host of off-the-shelf software applications for instant deployment.

## System Integration



# Technology

## Near Field Communication

Orbit is based on a 13.56 MHz contactless smartcard NFC interface that is compliant with ISO specifications 14443 A/B and 15693. The hardware supports Mifare Classic, Mifare Light, Mifare Ultralight, Mifare 4K, DESFire, FeliCa, JCOP 30, JCOP 31, B' cards, picoPass tag, Innovision Jewel smart cards and more.

## CCID & PC/SC

The device does not need drivers when used PC/SC-compliant operating systems such as Microsoft Windows Vista/64/32) 8/7 bit), Windows Server (2008/2003), Windows CE 7/6/5/4.2, where operation is plug-and-play. Support for other operating systems such as GNU/Linux, Mac OS, Solaris and FreeBSD is available with drivers.

## USB

Orbit supports USB for communication. It is powered via the same interface.

## Construction

Made from high impact ABS, the casing of Orbit iD is robustly built for frequent daily use.

Colour options: translucent black, custom upon request.

Orbit iD is also available as an OEM module for system integration.



# Specifications

## PHYSICAL SPECIFICATIONS

Dimensions	85 x 85 x 20 mm
Weight	Approx. 75 g
Composition	High impact ABS
Colour	Translucent black
Customisation Options	Colour and surface print, upon request
Status Indicators	Blue and red LED indicators

## CONTACTLESS SMART CARD INTERFACE

Operating Frequency	13.56 MHz
Chipset	NXP PR533
Communication Standards	NFC ISO/IEC 18092, ISO/IEC 14443 (Type A & B)
Card Reading Distance	Up to 70mm
Transmission Speed	Up to 848Kbps

## CONNECTIVITY

Host Interface	USB
Power Supply	Bus powered, optional external power supply
Transmission Speed	Up to 12 Mbps
Current Consumption	100mA

## APPLICATION INTERFACE

Protocol	CCID
PC / SC Driver Support	Windows 2K, Server 2003/8, XP (32/64), Vista (32/64), Windows 7(32/64), Windows CE, Mac OS, Linux

## OPERATING CONDITIONS

Operating Temperature	-20 to +80 °C
Non-Operating Temperature	-40 to +85 °C
Operating Humidity	0–95% non-condensing
Meantime Between Failure	500,000 hours

## STANDARDS

Safety / Environmental	CE, RoHS
Electromagnetic Compatibility	IEC 801-4, EN 61000-4-2, ENV 50140, ENV 50141, IETS 300330
Shock and Bump Immunity	IEC 68-2-27, Part 2, Test Ea Shock; IEC 68-2-29, Part 2, Test Eb Bump

## Warranty

Two year manufacturer's warranty