Thales NFC reader

Universal NFC reader for contactless smart card applications

THALES
Building a future we can all trust

Protecting executives

Cyber attack and identity theft continue to increase and become more sophisticated as businesses harness the power of online services for business applications. To counteract this threat, many enterprises, financial institutions and government agencies have deployed strong authentication using smart card technology. Their goal is to provide safe logical access, protect digital identities and safeguard online transactions for employees, customers and citizens at large.

Benefits

- Data and identity protection
- Strong authentication
- Secure application for eGovernment, eBanking and ePayment, enterprise, access control, healthcare, gaming
- Easy deployment
- Universal for all ISO contactless smart cards
- Customizable

Contact and contactless smart card readers are an essential component of any strong authentication solution deployment addressing PKI, OTP or FIDO technologies. Connected to a PC, laptop or thin client, they ensure communication between the smart card and network services and must do so in a convenient yet secure manner. Thales's full range of PC-Link smart card readers provide the perfect balance of ease of use combined with the highest level of security.

Main standard compliances

- ISO 14443 Type A & B Parts 1-4
- ISO 15693
- ISO 18092 NFC
- MIFARE® (T=CL)
- Microsoft ® WHQL
- USB 2.0 (type A and C)
- RoHS, REACH and WEEE
- PC/SC, CCID
- IP67 waterproof

Reader Design

The Thales NFC reader is a robust device built on 13.56 MHz contactless technology. It operates with contactless cards and tokens adhering to ISO 14443 Type A and B, ISO 15693, and ISO 18092 standards. The IP67 rating signifies its exceptional resistance to dust and water, ensuring uninterrupted operation even under challenging conditions.

In compliance with both CCID and PC/SC standards, the Thales NFC reader offers high-speed communication of up to 848 kbps. Its firmware embeds upgradable features, extending its versatility and cost-effectiveness across numerous sectors, including finance, healthcare, and government. It comes with a stand allowing to set the reader in a vertical position for a most convenient use on desks. A supplemental USB-C to USB-A convertor is provided, supporting all ranges of PCs.

About Thales

Thales is a global leader in cybersecurity, helping the most trusted companies and organizations around the world protect critical applications, sensitive data, and identities anywhere at scale. Through our innovative services and integrated platforms, Thales helps customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.

Technical Specifications

Contactless Smart Card interface

Supported Card Types	• ISO 14443 Type A & B Parts 1-4 • ISO 15693, ISO 18092 NFC • MIFARE®, FeliCa, SRI/SRIX, CTS, Innovatron, Picopass, Topaz Card
Operating Frequency	• 13.56MHz
Reading Distance	• Up to 70 mm (Depending on tag type)
Read / Write Speed	• 106/212/424/848 kbps (ISO 14443) • 26/53kbps (ISO 15693)
Supported NFC Mode	• Card Reader/Writer, Keyboard Emulation, Card Emulation

Host interface

Protocol	• USB CCID
Connector Type	• USB Type-C and Type-A (with USB-C to USB-A convertor)
Speed	• USB 2.0 Full Speed (12 Mbps) • compatible with USB 3.0
Supply Voltage	• 5VDC
Current Consumption	• Max. 300mA
USB Firmware Upgrade	• Supported

Physical Characteristics

Dimension (LxWxH)	• Main body: 85.0 x 60.0 x 9.0 mm
Weight (±5 g)	• 67 g (USB Type A)
USB cable Length	• 1 m (Non-detachable)
Power down	• Less than 200µA suspend mode current

Peripherals

Buzzer	• 1 x Programmable Buzzer (Mon-tone)
LED	• 1 x Programmable LED (Blue & Green)

Operating Condition

Temperature	• 0-60°C
Humidity	• 90% (Non-condensing)
MTBF	• 500,000 Hours

Certifications

Certifications	• CE, FCC, UKCA, VCCI, KC, RoHS, REACH, WEEE, J-LIS • Microsoft® WHQL
Compliances	• USB CCID, PC/SC

Drivers & Support

Driver Supported OS	• Windows®, Linux®, macOS, Android™
Warranty	• 1 Year

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