



## SDI uTrust 4701 F

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### Short product description

Dual Interface USB Desktop Reader - for contact and contactless smart cards

### Product description

The uTrust 4701 F is the ideal combination of contact, contactless and NFC technologies in just one single device.

Supporting ISO/IEC 7816 contact cards, 13.56MHz contactless technology and NFC this PC-linked dual interface reader is featuring user environments where virtually all kinds of credentials are being used, even in mixed populations.

With its all in one concept the uTrust 4701 F enables a smooth transition from well-established traditional technologies into the emerging NFC applications pushing new business.

It represents the perfect mix between modern, stylish design and ergonomic use of any credential form factor like ID-1 cards (85,725 mm — 53,975 mm), tokens or NFC enabled smart phones.

The end user experiences convenience, transaction time efficiency, security, flexibility and full NFC capability for use applications such as network log-on, secure web based Transactions, German nPA or even NFC based customer loyalty programs.

### Technical specifications

#### Host Interface

USB 2.0 CCID (USB 1.1 / 3.0 compliant)

Communication Speed 12 Mbps (USB2.0 full speed)

#### Smart Card Interface

Supported standards ISO/IEC 7816 Part 1 to 4

Supported Tag ICs - All major ISO/IEC 7816 compliant Smart Card IC support

Protocols T=0, T=1

Interface speed up to 600 kBit/s (depending on card); TA1=97

Clock frequency ISO/IEC 7816 compliant up to 5 MHz, Operates up to 16 MHz

Supported smart card types 5V, 3V and 1.8V, ISO/IEC 7816 Class A/B/C

Power to smart card 60mA in Class A; 55mA in Class B; 35mA in Class C

Smart card detection Card present switch / Automatic power on/off / Short Circuit protection

Card size ID1

Contact type 8-pin ID1 Sliding Contact Socket / C4/C8 support / Card detect switch

Contactless Interface

Supported standards ISO/IEC 14443 A&B Part 1-4

Protocols T=CL, MIFARE

Supported card chips MIFARE (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k), FeliCa, Calypso, CD21, L ascom Cards

NFC Forum Tag Types 1/2/3/4

German identity card (NPA)

Data transfer rate 106/212/424/848 kbit/s depending on card IC

Reading distance Up to 70 mm / 2,756 Inch depending on card chip type and card antenna size

Antenna Integrated

Operating Conditions

USB Bus powered

Dimension 126x93x21mm

Weight 117 g ± 5%

Operating temperature range / -20 Degree to +70 Degree C / +32 to +122 F / Storage temperature range -25 to +85°C / -4 to +140 F

Operating humidity range Up to 95% RH non condensing

Durability Sliding Contacts 100.000 Card

Insertions

MTBF 100.000 hours

Connector 1.5m USB Cable with USB Type A Connector

Status indicator Dual color LED

Firmware SmartOS upgradeable Yes

Certifications / Standards

ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL, CE, FCC, UL94, UL60950, VCCI, RFLJ, RoHS2, REACH, WEEE

Supported operating systems

Windows 7 / 8 / 8.1 / 10 (32 and 64 Bit)

Windows Server 2003/2008/2012

MacOS 10.10.x, 10.11.x, 10.12.x

Linux 2.6.x (32 and 64 Bit), 3.x

Software

PC/SC API

CT-API (through wrapper on top of PC/SC)

M-Card API (through wrapper on top of PC/SC)