



SDI uTrust 4700 F

Article number: 795-0011-03

Short product description

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

product is end of life:

- Successor is SDI uTrust 4701 F -

Product description

The uTrust 4700 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 CLOUD 4700 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 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,

NFC Forum Tag Types 1/2/3/4

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 \pm 5%

Operating temperature range / 0 Degree to +50 Degree C / +32 to +122 F / Storage temperature range -20 to +60°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 LED

Firmware in-field upgradeable Yes

Certifications / Standards

ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft WHQL

CE, FCC, UL94, RoHS2, REACH

Supported operating systems

Windows XP / Vista / 7 / 8 / 10 (32&64Bit)

Windows Server 2003/2008/2012

Windows CE 6.0, 7.0

MacOS 10.5.x, 10.6.x, 10.7.x, 10.8.x

Linux 2.4.x, 2.6.x (32&64Bit)

Software

PC/SC API

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

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

uTrust Smart Card Reader Dual

uTrust 470x F — Dual Interface Smart Card Reader



- **USER CONVENIENCE**
 Modern housing design optimized for easy and ergonomic operation even in space limited situations
- **CONVERGENCE**
 Featuring contact, contactless, Lascom, and NFC technologies for use with mixed credential populations
- **INTEROPERABLE**
 Supports major card ICs, standards, and technologies in just one device
- **FAST**
 Transaction time optimized with support of 848 kbps in ISO/IEC 14443 and 600 kbps in ISO/IEC 7816 for maximum end-user acceptance

The uTrust 470x F is the ideal combination of contact, contactless, and NFC technologies in just one single device. Supporting ISO/IEC 7816 contact cards, 13.56 MHz contactless technology, and NFC, this PC-linked dual interface reader features end-user environments where virtually all kinds of credentials are being used, even in mixed populations.

With its all-in-one concept, the uTrust 470x F enables a smooth transition from well-established traditional technologies into emerging NFC applications, pushing new business.

It represents the perfect mix between modern, stylish design and the ergonomic use of any credential form factor, like ID-1 cards, 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, governmental use applications like online tax-declarations, or even NFC-based customer loyalty programs.

PARAMETER	IDENTIV UTRUST 470X F
Host Interface	
Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
Communication Speed	12 Mbps (USB 2.0 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
Smart Card Protocols	T=0, T=1
Smart Card Interface Speed	<ul style="list-style-type: none"> • Up to 600 kbps (depending on card) • TA1=97
Smart Card Clock Frequency	ISO/IEC 7816 compliant up to 5 MHz; Operates up to 12 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	<ul style="list-style-type: none"> • Card present switch • Automatic power on/off • Short circuit protection
Card Size	ID-1
Contact Type	Sliding Contact Socket (8 pin)

uTrust Smart Card Reader Dual

uTrust 470x F — Dual Interface Smart Card Reader

PARAMETER	IDENTIV UTRUST 470X F
Contactless Interface	
Supported Standards	<ul style="list-style-type: none"> • ISO 14443 Part 1 to 4 • ISO 18092
Protocols	T=CL
Supported Card Chips	<ul style="list-style-type: none"> • Lascom Cards • MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k), FeliCa™, Calypso, CD21, NFC Forum Tag types 1/2/3/4
Data Transfer Rate	<ul style="list-style-type: none"> • 106/212/424/848 kbps (depending on card IC)
Reading Distance	<ul style="list-style-type: none"> • Up to 10 mm/0.394 in for Lascom Cards • Up to 70 mm/2.756 in (depending on card chip type and card antenna size)
Antenna	Integrated
Driver and Software	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: <ul style="list-style-type: none"> • Windows® 7/8 (32 and 64 Bit) • Windows® Server 2003/2008/2012 • MacOS 10.6.x, 10.7.x, 10.8.x, 10.9.x • Linux 2.6.x (32 and 64 Bit), 3.x
Software	<ul style="list-style-type: none"> • PC/SC API] • CT-API (through wrapper on top of PC/SC) • M-Card API (through wrapper on top of PC/SC)
Operating Conditions	
Power Supply	Bus-powered USB
Power Consumption	<220 mA, excluding smart card; < 400 mA, with smart card; < 600 µA in Standby Mode
Dimensions	<ul style="list-style-type: none"> • 126 x 93 x 21 mm/4.961 x 3.661 x 0.827 in • uTrust 4701 F with stand foot kit: 128 x 93 x 90 mm/4.449 x 3.661 x 3.622 in
Weight	<ul style="list-style-type: none"> • 117 g ± 5% / 0.26 lb ± 5% • uTrust 4701 F with stand foot kit: 167 g ± 5% / 228 g ± 5%
Operating Temperature Range	-20° to +70° C / -4° to +158° F
Storage Temperature Range	-25° to +85° C / -13° to +185° F
Operating Humidity Range	Up to 95% RH non-condensing
Durability	Sliding Contact 100,000 card insertions
MTBF	~4M hours
Connector	1.5 m USB Cable with USB Type A Connector
Status Indicator	Dual color LED
Firmware	SmartOS™
Firmware In-Field Upgradeable	Yes
Certifications and Compliances	
Systems/Standards	ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/Environmental	CE, FCC, UL94, UL60950, VCCI, RFLJ, RoHS2, REACH, WEEE
Ordering Information	
Product Part Number	905504 - 5008; 905322



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