MARKLAND

uTrust4701F

Dual interface smart card reader/writer

Get secure contact ISO/IEC 7816 and contactless 13.56 MHz technologies in one device

uTrust 4701 F is the ideal combination of contact, contactless, and near field communication (NFC) technologies. Supporting ISO/IEC 7816 contact cards, 13.56 MHz contactless technology, and NFC, this PC-linked dual interface reader works in end user environments where virtually all kinds of credentials are being used, even in mixed populations..

With its all-in-one concept, uTrust 4701 Fenables 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, including ID-1 cards, key fobs, tokens, or NFC-enabled smart phones. Experience convenience, transaction-time efffciency, security, flsexibility, and full NFC capability for applications such as network logon, secure web-based transactions, government use cases like online tax declarations, or even NFC-based customer loyalty programs.

User Convenience

• Modern design optimized for easy and ergonomic operation, even in limited space environments

Convergent

• Features 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

Parameter	Details
Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant)
Communication Speed	12 Mbps (USB 2.0 full speed)
Support	
Supported Standards	ISO/IEC7816, ISO/IEC14443, ISO/IEC18092
Contact Smart Card Interface	
Supported Contact Card ICs	All major ISO/IEC 7816 compliant Smart Card IC support
Contact Smart Card Protocols	T=0, T=1
Smart Card Interface Speed	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	ISO/IEC 7816 voltage classes A/B/C (5V, 3.3V, 1.8V)
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	ID-1
Contact Card Slot	ID-1 Sliding Contact Socket (8 pin)
Durability	Sliding Contact 100,000 card insertions
Contactless Smart Card Interface	
Supported Contactless Standards	ISO/IEC 14443 A&B Part 1 – 4,ISO/IEC 18092
Protocols	T=CL
Supported Contactless Card ICs	MIFARE® Classic Family, MIFARE Ultralight Family, MIFARE Plus Family, MIFARE DESFire Family, FeliCa™, NFC Forum Tag types 1/2/3/4,, Lascom
Data Transfer Rate	106/212/424/848 kbits/s, depending on card IC
Antenna	Integrated
Driver and Software	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: • Windows® 7/8/10/11 (32 and 64 bit), Windows® Server 2008/2012/2016/2019, WindowsXP, • MacOS 10.9.x - 12.2.x, • Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), • Android 8.0 and higher
Software	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	USB Bus-powered
Power Consumption	<220 mA, excluding smart card; < 400 mA, with smart card; < 600 µA in Standby Mode
Dimensions(L x W x H)	126 x 93 x 21mm
Weight	117g ± 5%
Operating Temperature Range	0° to 50° C (32° to 122° F)
Storage Temperature Range	-25° to 85° C (-13° to 185° F)
Operating Humidity Range	Up to 95% RH non-condensing
Connector	1.5m USB cable with USB type A connector
Status Indicator	Dual color LED
Firmware	SmartOS™
Firmware In-Field Upgradeable	Yes
Certifications / Compliance	
Systems/Standards	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 18092, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/Environmental	RED 2014/53/EU, FCC, CE, UL94, UL60950, VCCI, RFLJ, RoHS2, REACH, WEEE

TECHNICAL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE.

REVISION DATE: 2024-11-07

For more information:
www.mttek.hk
www.markland.com.cn