IDENTIV

uTrust 5500 F

Multi-Technology Secure Smart Card Reader/Writer Module

- ■ **MULTI-TECHNOLOGY**
  Supports contact and contactless technology in one device
- ■ **MULTI-FREQUENCY**
  Supports 125 kHz and 13.56 MHz contactless cards
- ■ **MULTI-PROTOCOL**
  ISO14443 A/B, ISO15693, NFC, MIFARE™, FeLiCa™, and iClass/iClass Seos™ (through SAM)
- ■ **FLEXIBLE**
  Suitable for a wide range of applications, including card issuance printers
- ■ **COMPACT**
  Small form factor for easy system integration
- ■ **READY**
  PC/SC drivers for Windows, Mac OS, Linux with USB interface and power
- ■ **SMARTOS™**
  Upgradable firmware

Identiv's uTrust 5500 F Smart Card Reader/Writer Module combines contact and multi-frequency/multi-ISO contactless interface capabilities to support a wide variety of identification applications. uTrust 5500 F is primarily intended for use within a card printer typically used in card issuance systems. The module supports contact smart card personalization (both synchronous and asynchronous), contactless high-frequency 13.56 MHz cards that are compatible with ISO14443, ISO15694, FeLiCa, and contactless low-frequency cards that operate at 125 kHz. uTrist 5500 F allows card personalization while other information is printed on its surface.

uTrust 5500 F's optional Secure Access Module (SAM) slot provides enhanced application security via secure authentication, mutual authentication, key management, and smart card cryptographic functions. Secure communication with proprietary card technologies, such as iClass™, iClass Seos™, and more, are supported through SAM.

Identiv-powered SmartOS™ in-field upgradeable firmware makes uTrust 5500 F a secure, forward-looking investment, providing both flexibility and fast time-to-market for new products and applications, as well as minimum risk linked to the evolution of technology standards. Ideal applications for the module include electronic identification and e-passport, e-banking, and e-commerce.

PARAMETER	UTRUST 5500 F
Host Interface	
Host Interface	USB 2.0 CCID (USB 1.1/3.0 compliant), 12 Mbps (USB full speed)
Smart Card Interface (Contact)	
Supported Standards	ISO/IEC 7816 Part
Supported Tag ICs	All ISO/IEC 7816 compliant Smart Card IC support
Smart Card Protocols	T=0, T=1
Smart Card Interface Speed	Communication speed up to 600 kbps (PPS, FI parameter)
Smart Card Clock Frequency	Frequency up to 16 MHz (PPS, DI parameter)
Supported Smart Card Types	Voltage classes A, B, and C
Card Connector	8 contacts – ISO location, ID-1, contact type, 100,000 insertions
SAM Connector	6 contacts – ISO location, ID-000, 5,000 insertions

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PARAMETER	UTRUST 5500 F
Contactless Interface (HF and LF)	
Supported Standards	ISO 14443 A and B (13.56MHz) smart cards, ISO 15693
Protocols	T=CL
Supported Card Chips	MIFARE (Classic 1K and 4K, DESFire, Ultralight, Ultralight C, PLUS, mini, EV1), FeLiCa (Lite and Secure), NFC (Type 1 - 5), Calypso cards, iClass through iClass SAM, and LF (ASK, FSK and PSK)
Data Transfer Rate	106/212/424/848 kB/s (depending on card IC)
Operating Distance	2.5 cm
Antenna	Integrated for HF, external for LF
Driver and Operating Conditions	
PC/SC Driver	PC/SC Specification Ver. 2.01.14 for: • Windows® 10 (32 and 64 Bit) with Device Guard support • Windows® Server 2012 / 2016 • MacOS 10.12.x • Linux 3.x
Power Supply	Bus-powered USB
Dimensions	50 x 47 x 9 mm (1.97 x 1.85 x 0.35 in)
Weight	15 g ± 5%
Operating Temperature Range	0° to 50°C (32° to 122°F)
Operating Humidity Range	Up to 90% RH non-condensing
Durability	Contact 100,000 card insertions
Connector	JST SUH series 12-pin connector – USB Interface, card detection, and optical switch for positioning the card
Status Indicator	Three single-color LEDs (SAM, contac, and contactless HF)
Firmware	SmartOS™
Firmware In-field Upgradeable	Yes
Certifications/Compliance	
Systems/Standards	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 15693, USB 2.0 Full Speed, CCID, Microsoft® WHQL
Regulatory/Environmental	CE, FCC Class B part 15, UR, RoHS2, REACH, WEEE
Ordering Information	
Product Part Number	905573

Identiv, Inc. (NASDAQ: INVE) is a global provider of physical security and secure identification. Identiv's products, software, systems, and services address the markets for physical and logical access control and a wide range of RFID-enabled applications. Customers in the government, enterprise, consumer, education, healthcare, and transportation sectors rely on Identiv's access and identification solutions. Identiv's mission is to secure the connected physical world: from perimeter to desktop access, and from the world of physical things to the Internet of Everything.

Identiv has offices worldwide. Addresses and phone numbers are listed at identiv.com/contact. For more information, visit identiv.com or email sales@identiv.com.