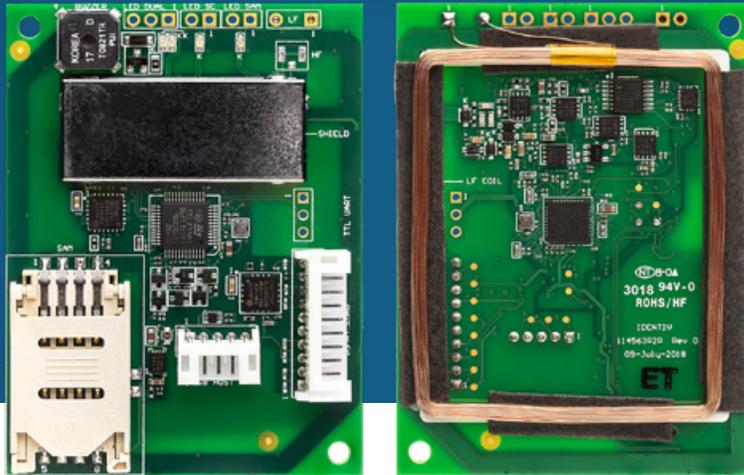


uTrust 5501 F (OBA)

Smart Card Reader/Writer Module with On Board Antenna



125 kHz and 13.56 MHz multi-technology smart card reader/writer module features an on board antenna (OBA).

The module combines contact and multi-frequency/multi-ISO contactless interface capabilities to support a wide variety of identification applications. It supports contact smart card personalization (both synchronous and asynchronous), contactless high-frequency 13.56 MHz cards that are compatible with ISO14443, ISO15693, FeliCa™, and contactless low frequency cards that operate at 125 kHz.

uTrust 5501 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 onboard SAM.

The module's smart card header allows for an additional contact card slot for ID-1 or ID-000. This expands the capabilities of the module to read ID-1-sized contact cards or provide an additional SAM slot. This module's FCC and IC Modular certification allows for quick integration in different products without the need for expensive re-certification.

Ideal applications for the module include electronic identification

Multi-Technology

- Supports contact and contactless technology

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

Quick Integration

- Modular certified to ease integration without costly re-certification

Identiv-Powered SmartOS™

- In-field upgradeable firmware
- Forward-looking investment, providing both flexibility and fast time-to-market for new products and applications
- Minimum risk linked to the evolution of technology standards

uTrust 5501 F (OBA)

Parameter	Details
Primary Interface	USB 2.0 CCID (USB 1.1/3.0 compliant), 12 Mbps (USB full speed)
Supported Smart Card Standards	ISO/IEC 7816 Part 1 to 4
Supported ICs	All ISO/IEC 7816 compliant Smart Card ICs
Smart Card Protocols	T=0, T=1
Smart Card Interface Speed	Communication speed up to 600 kbps (PPS, FI parameter)
Smart Card Clock Frequency	ISO/IEC 7816 compliant; Operates up to 16 MHz (PPS, DI parameter)
Supported Smart Card Types	5V, 3V, and 1.8V; ISO 7816 smart card Class A, B, and C
Contact Type	On board SAM slot; external slot (ID-1 or ID-000)
Supported Contactless Standards	ISO 14443 A and B (13.56MHz) smart cards, ISO 15693, and 125KHz
Protocols	T=CL
Supported Card Chips	MIFARE Classic™ family, MIFARE DESFire family, MIFARE Ultralight family, MIFARE Plus family, FeliCa™ (Lite and Secure), NFC (Types 1, 2, 3, 4, 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	Up to 2.5 cm depending on frequency
Antenna	Integrated HF and LF antenna
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, Windows® 6.0, 7.0, WindowsXP, MacOS 10.9.x - 12.1.x, Linux 2.6.x, and 3.x, 4.x, 5.x (32 and 64 bit), Android 4.0 and higher
Power Supply	USB bus-powered
Dimensions	66 x 48 x 10 mm (2.6 x 1.89 x 0.39 inch)
Weight	26 grams
Status Indicator	Four (4) LEDs (review manual for more information)
Firmware In-Field Upgradability	Yes
Firmware	SmartOS™
Operating Temperature Range	0° to 50°C (32° to 122°F)
Operating Humidity Range	Up to 90% RH non-condensing
Buzzer	Beeps upon card detection

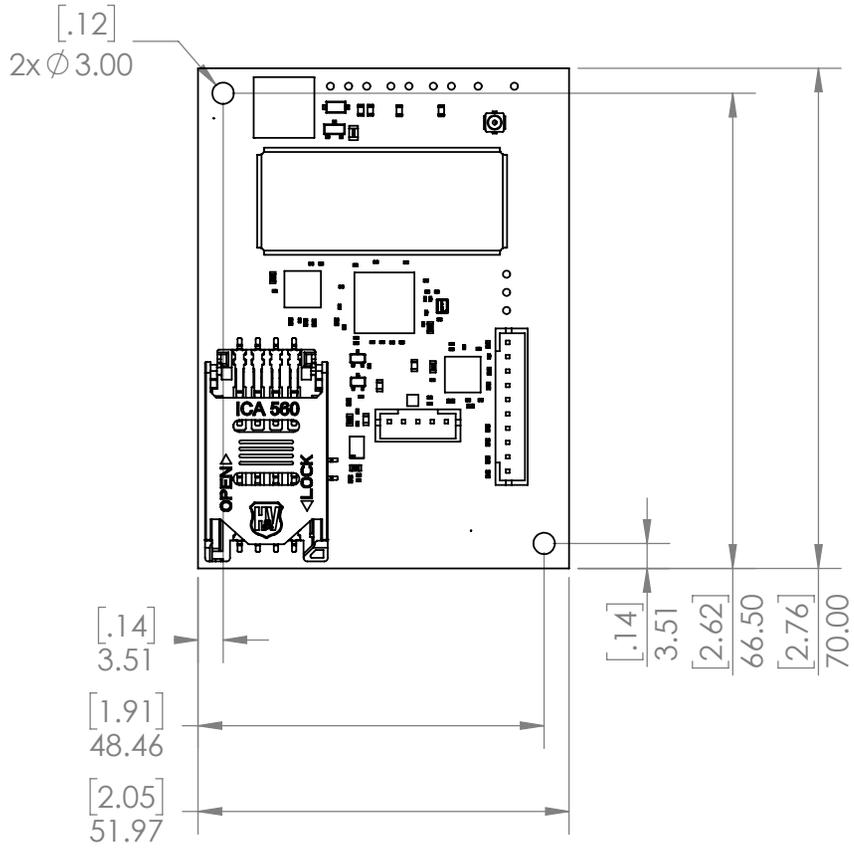
Certificates and Compliance

Standards	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 15693, USB 2.0 Full Speed, CCID, and Microsoft® WHQL
Regulatory/Environmental	RSS-210, CE RED, FCC Modular Approval, RoHS3, REACH, and WEEE

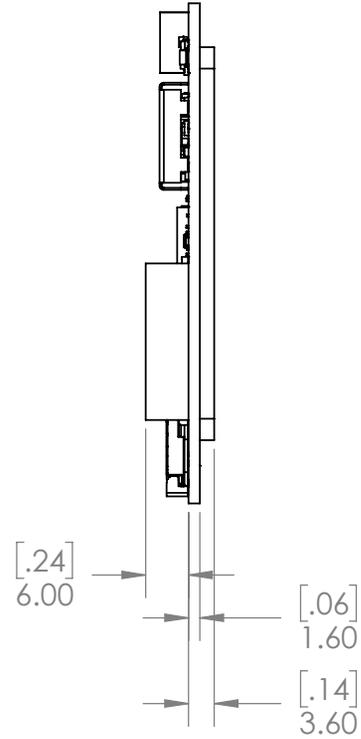
Ordering Information

Product Part Number	905567
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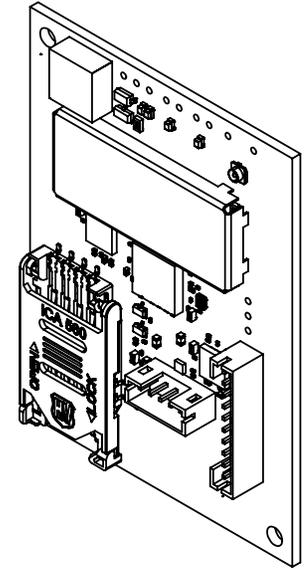
Top View



Right Side View



Isometric View



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	REV.	DATE	Rev. History
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FINISHING : xxxx	DRAWN BY : Karthick		DATE : 02-Feb-2021
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		UNIT : [Inches] / [mm](Millimeter)	PART NO. : TBD
		SIZE : A4	REV. : 1 / SHEET : 1 OF 1
		TITLE : uTrust 5501 F	