IDENTIV

uTrust 5501 F Series

125 Khz and 13.56 Mhz Multi-Technology Smart Card Reader/Writer Module





Combines contactless and leading-edge NFC technologies and is protected by an optional secure access module (SAM).

Identiv's uTrust 5501 F is available with an on board antenna or as a module compatible with an external antenna. 125Khz and 13.56 Mhz Multi-Technology Smart Card Reader/Writer Module combines contact and multi-frequency/ multi-ISO contactless interface capabilities to support a wide variety of identification applications. The module supports contact smart card personalization (both synchronous and asynchronous), contactless highfrequency 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 iClassTM, iClass SeosTM, 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.

Identiv-powered SmartOS™ in-field upgradeable firmware makes uTrust 5501 Fa 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.

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

Compact

Small form factor for easy system integration



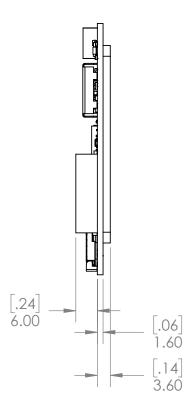
uTrust 5501 F Series Specifications

Parameter	Details							
	uTrust 5501 (OBA)	HF w/o SAM						
Primary Interface	USB 2.0 CCID (USB 1.1/3.0 compliant), 12 Mbps (USB full speed)							
Supported 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; exte	External Slot (ID-1 or ID-000)						
Supported Contactless Standards	ISO 14443 A and B (13.56MH 125	ISO 14443 A and B (13.56MHz smart cards, ISO 15693						
Protocols	T=CL							
Supported Card Chips	MIFARE (Classic 1 Kand 4K, DESFire, EV1, EV2, EV3, Ultralight, Ultralight C, PLUS, mini), FeLiCa (Lite and Secure), NFC (Type 1 - 5), Calypso cards, iClass through iClass SAM, and LF (ASK, FSK and PSK) MIFARE (Classic 1 k DESFire, Ultralight, DESFIRE, DESFI							
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	Sold Separately	Integrated HF antenna					
PC/SC Driver	PC/SC Specification Ver. 2.01 .14 Bit) with Device Guard support; W. MacOS 1 0.12.x; Linux 3.x, 4.x							
Power Supply	USB bus-powered							
Dimensions	2. 75 x 2.00 x 0.32 in (subject to change)							
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							
Standards	ISO/IEC 7816, ISO/IEC 14443, ISO/IEC 15693, USB 2.0 Full Speed, CCID, and Microsoft® WHQL							
Regulatory/Environmental	CE, FCC part 15 Subpart C, Certified as module, RoHS2, REACH, and WEEE							
Product Part Number	905567 905567-1 905567							

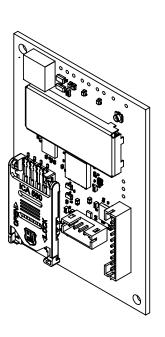


Top View [.12] 2x Ø 3.00 [.14] 3.51 [2.62] 66.50 70.00 [.14] 3.51 [1.91] 48.46 [2.05] 51.97

Right Side View



Isometric View



II PENTIV		1	02-Feb-2021	Initial Relase						
		REV.	DATE	Rev. History						
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