





RFID Tags

LIBSYS is automating libraries since 1988 and provides comprehensive, reliable, high performance ISO RFID system on 13.56 MHz (HF) proven technology for libraries. Our unique RFID expertise, combined with in-depth understanding of library business processes makes KSmart-System easy to use and implement in your library. KSmart has been proved to be strong on reliability, flexibility and ease-of-operations and combined with robust and quality hardware equipment results in maximum ROI for libraries.



KSmart-RFID Tags are specially designed for library application. These ultra-thin, flexible HF ISO tags with an electronic chip are applied on Books / CDs/DVDs and can be read without contact and line of sight. RFID Tags have inbuilt EAS / AFI function to ensure detection against thefts and are designed to last lifetime of the item they identify. RFID Tags have lockable section for item identification, re-writable section for library use and security function.

TECHNICAL SPECIFICATIONS

Particulars	 RFID Tags for Books		 Media (CD/DVD)	
	Frequency	13.56 MHz		
ISO Standards	ISO 15693 and ISO 18000-3			
Memory	2048 Bits R/W EEPROM			
Chip Type	NXP ICODE SLIX2			
Dimensions	50mm X 50mm (± 0.10mm) 80mm X 50mm (± 0.10mm)		40mm diameter (± 0.5mm) 108mm diameter (± 0.5mm)	
Overall Thickness	0.45mm			
Data Format	ISO 28560			
Data Retention	Upto 50 years			
Operating Temperature	-40° to +85° C			
Storage Temperature	-40° to +85° C			
Read/Write Cycles	100000			
Format	1000 Tags per Roll			
Warranty	Lifetime to item applied as per standard library guidelines			

LIBSYS Ltd. 631-633, Udyog Vihar, Phase V, Gurgaon – 122 016 / www.libsys.co.in / T: 0124-4894100 / E: info@libsys.co.in

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RFID Station

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KSmart-RFID Station is specially designed for library staff application. RFID Tag once applied to a book and other library material is tagged using KSmart-Client software. It assists in various library circulation activities like check-out/in, renewal, monitoring, sorting and admin functions. Provision to issue/return items in offline mode.

TECHNICAL SPECIFICATIONS

Particulars	 		
	RFID Staff Station		Optional in Circulation Station
Frequency	13.56 MHz		
ISO Standards	ISO 15693 and ISO 18000-3 / ISO 28560-2 ISO 14443A (Mifare optional)		
RF Power	>1 W (with anti-collision algorithm)		
Read Range	Upto 30 CMs (depending upon transponder)		
Dimensions	Antenna 254mm X 263mm X 17mm & Reader 123mm X 68mm X 30mm		
Operating Temperature	-10° to +70° C		
Communication Interface	USB/Ethernet (Optional)		
Casing	ABS (Includes metallic shielding) Options		
Options	80 MM Thermal Slip Printer Biometric Reader for Member Identification Signature PAD Web Camera		
Certifications	CE, FCC, UL, RoHS Compliant		
Warranty	One year		

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RFID Security Gates

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KSmart-RFID Security Gates are specially designed for library offering high reliability in securing tagged library collection. RFID gates offer great read range and speed for excellent detection (Overlapping protection zone) and reliability. Its adjustable display and audio alarm alerts library staff for any theft of library material. Provision to store details of items not checkout properly through library. Support for integrated bi-directional people counter counts in and out traffic in a library. Additional I/O ports for integration of other devices including CCTV, Sliding Gates, etc. Support for multiple gates solution with additional EAS pedestals.

TECHNICAL SPECIFICATIONS

Particulars	RFID Security Gates
Frequency	13.56 MHz
ISO Standards	ISO 15693 and ISO 18000-3
RF Power	> 4 W (with anti-collision algorithm)
Detection Range	Upto 140 CMs (depending upon transponder)
Security Modes	EAS & AFI
Dimensions (HXWXD)	1846mm X 546mm X 45mm Base Plate: 620mm X 80mm
Alarms	Lights and Buzzer (adjustable)
Power Consumption	30 W (each)
Operating Temperature	-10° to +70° C
Interface	Ethernet
People Counter	Integrated bi-directional (counts in and out traffic)
Weight	25 Kg (each)
Material	High quality acrylic
Certifications	CE, FCC, UL, RoHS Compliant
Warranty	One year

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Self Check Kiosk

LIBSYS is automating libraries since 1988 and provides comprehensive, reliable, high performance ISO RFID system on 13.56 MHz (HF) proven technology for libraries. Our unique RFID expertise, combined with in-depth understanding of library business processes makes KSmart-System easy to use and implement in your library. KSmart has been proved to be strong on reliability, flexibility and ease-of-operations and combined with robust and quality hardware equipment results in maximum ROI for libraries.



KSmart Self Check Kiosk allows patrons to check-out, check-in and renewal multiple items without assistance of any library staff. It is an interactive Kiosk with touch screen, having a user friendly interface and browser based KSmart-Client integrated with any standard LMS for fast & convenient circulation. Provision to checkout items in offline mode and check member account details, borrower history, due date, fine details, etc. Option for member identification through smart card, biometric, barcode or directly entering ID through online keyboard (with OTP).

TECHNICAL SPECIFICATIONS

Particulars	Self Check Kiosk	
Frequency	13.56 MHz	
ISO Standards	ISO 15693 and ISO 18000-3 ISO 14443A (Mifare optional)	
RF Power	>1 W	
Read Range	Upto 30 CMs (depending upon transponder)	
Kiosk Dimensions (HXWXD)	1520 mm X 600 mm X 240 mm (with LCD and base height). Base Size: 30 mm X 800 mm X 340 mm	
Kiosk Enclosure	Imported Laminate (with toughened glass)	
Operating Temperature	0° to +60°C	
Communication Interface	USB/Ethernet (optional)	
Printer / Display Unit	Thermal Slip Printer (80 mm) Print Speed: 150 mm / sec. Paper Thickness: 0.06 – 0.15 mm Auto Cutter & Multilingual Print Support	22" LED Touch Screen Display Resolution: 1920 X 1080 USB Touch Screen Interface 20,000,000:1 Dynamic Contrast Ratio Audio Output: 2W
CPU	Branded CPU	
Options	Self Checkout Kiosk Self Checkout/in Kiosk (With books receiving cart) Biometric Reader for Member ID	
RFID Certifications	CE, FFC, UL, RoHS Compliant	
Warranty	One year	



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Portable Handheld Reader

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KSmart-Portable RFID Handheld Reader with inbuilt android device is specially designed for library application. It is used to read tagged library collection, stock tacking, shelving, locating missing items through browser based KSmart-Client software. Its illuminated colour display and audio alarm provides ease of use to library staff.

TECHNICAL SPECIFICATIONS

Particulars	KSmart-Portable Handheld Reader with KSmart-Client Software
Frequency	13.56 MHz
ISO Standards	ISO 15693 and ISO 18000-3
RF Power	> 1 W (with anti-collision algorithm)
Read Range/Speed	Upto 30 CMs (depending upon transponder)/ Upto 50 tags per second
Dimensions (HXWXD)	192 x 74 x 32 mm
Operating System	Android 4.3
Memory	1 GB RAM, 8 GB ROM, Supports MicroSD /TF SIM
Battery	4500mAh lithium
Operating Temperature	-10° to +70° C
Operating Time	> 6 hours
Standby Time	> 200 hours
Communication Interface	Wi-Fi (IEEE 802.11b/g) / Bluetooth 4.0
Support	HF RFID/Barcode
Certifications	CE, FCC, UL, RoHS Compliant
Warranty	One year



RFID Smart Cards

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KSmart-RFID Smart Cards are specially designed for RFID application. These high quality PVC HF ISO cards with an electronic chip can be read without contact and line of sight. RFID Cards are designed to last lifetime usage.

TECHNICAL SPECIFICATIONS

Particulars	Patron Card
Frequency	13.56 MHz
ISO Standards	ISO 15693 / ISO 18000-3 and ISO 14443A (Mifare)
Dimensions	85.6 mm X 54 mm (+/-0.5mm)
Memory	1024 Bits (896 Bits User Memory) EEPROM 2048 / 4096 Bits (Optional)
Data Format	ISO 28560
Data Retention	Upto 50 years
Operating Temperature	0° to +80° C
Storage Temperature	Upto 80° C
Read/Write Cycles	100000
Format	200 Nos. (Box)