



# Thales MRZ and MSR Swipe Reader **CR100M**

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## Identity & Biometrics Solutions

The Thales MRZ and MSR Swipe Reader CR100M acquires the codeline data from Machine Readable Travel Documents (MRTDs) and other identity documents and reads the magnetic stripe from ISO standard cards such as frequent flyer cards, driver's licences and employee ID cards.

## Ergonomic design

The design of the Thales MRZ and MSR Swipe Reader CR100M is based on detailed and exhaustive analysis of field experience and numerous deployed projects. Small in size, the reader requires very little desk space which makes it efficient and easily adaptable. The intuitiveness of the CR100M resides in the left- or right-hand swipe operation in either direction, which requires minimal operator training.

The Swipe Reader CR100M thus improves registration processes and connects to most business applications, allowing organisations to save time and be more cost-effective.

## Key features



USB powered



Bi-directional swiping



OEM & integrators options available



Desktop mountable

## Benefits

- Fast and accurate data capture
- Easy to use either left or right-handed
- Desk mount or Keyboard/LCD/ laptop attachment using double sided fasteners for stable, non-slip swiping
- Applicable to banking, border control, law enforcement, transportation, hotel, car hire and retail markets
- Perfect for registration, enrollment and duty-free applications
- MSR Reading capabilities: US driver's licenses, employee ID cards, frequent traveler cards, loyalty cards, credit cards in certain PCI environments

## Comprehensive Software Development Kit

- SDK provides reader configuration application
- SDK includes DLLs and demonstration programs.  
Can be used with Visual C++®, Java® and Microsoft® .NET Framework for Visual Basic® .NET and Visual C#®

## Fast, accurate data capture for many applications:



### Retail

Age verification for controlled products; liqueur, cigarettes, firearms, pharmaceuticals, etc.



### Financial

ID capture during registration for regulatory requirements, fraud prevention and ID theft.



### Hotel, Hospitality and Gaming

Physical security & travel risk management to ISO 31030. VIP alerting, registration and cash management.



### Law Enforcement

ID capture for quick and accurate inmate booking, courthouse security processing and correctional facility visitation.



### Healthcare

ID capture for insurance validation, patient take in, bedside care and prescription drug pick-up.



### Visitor Management

ID capture for educational, commercial, or corporate settings e.g. access control, time & attendance, VIP alerting.



### Transportation and car leasing

ID capture for regulatory requirements, fraud prevention, access control and expedited service.



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<b>IMAGING</b>	
<b>Illumination</b>	Near IR B900: 880nm, +/-5%
<b>Formats</b>	BMP, PNG or JPEG format
<b>READING CAPABILITIES</b>	
<b>Optical Character Recognition (OCR) reading</b>	<ul style="list-style-type: none"> <li>• 2 and 3 line ICAO compliant documents in near infrared (IR) 875nm per ICAO 9303 specification</li> <li>• Near ICAO compliant travel documents such as French ID cards</li> <li>• 1 line driving licenses to ISO 18013 as well as many other non-ICAO 1 line ID cards</li> <li>• 3 track magnetic swipe card conforming to ISO 7811/2-5 including AAMVA</li> </ul>
<b>Bi-directional swiping</b>	Yes
<b>MECHANICAL</b>	
<b>Mounting</b>	<ul style="list-style-type: none"> <li>• Desktop mount for stable, non-slip swiping (optional, user installable)</li> <li>• Can be attached to a keyboard, LCD or other device/ mounting</li> </ul>
<b>ELECTRONICS</b>	
<b>Power</b>	Powered from a single USB 2.0 port: <400mA peak
<b>Minimum PC specification</b>	<ul style="list-style-type: none"> <li>• 2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended)</li> <li>• 1 GB DRAM</li> <li>• USB 2.0</li> <li>• 60 MB of Hard Drive space for software</li> <li>• Windows® 10 or Windows 11® operating systems, 32 or 64 bit Builds for Ubuntu and CentOS LTS, 32 &amp; 64 bit</li> <li>• Android (limited SDK functionality)</li> </ul>
<b>ENVIRONMENT</b>	
<b>Temperature</b>	Operating: 5° to 35° C (41° - 95° F); Storage: -10° to 60° C (14° - 140° F)
<b>Humidity</b>	Operating: 40 to 90% (R.H. non-condensing) ; Storage: 40 to 95% (R.H. non-condensing)
<b>MAINTENANCE</b>	
<b>Service &amp; maintenance</b>	<ul style="list-style-type: none"> <li>• Two-year warranty</li> <li>• Extended agreement available</li> </ul>
<b>Firmware upgrade</b>	Upgradeable firmware via USB interface Non-volatile memory for configuration and calibration held in reader
<b>CERTIFICATIONS</b>	
FCC Part 15 Class A, CB report, UL UL-C, CE - RED, LVD & EMC, EU WEEE, REACH & RoHS Directives	



## Standard Dimensions (Approx)

	<b>Basic module</b>	<b>With Desk Mount</b>
<b>Length:</b>	11.7 cm (4.6")	13.3 cm (5.2")
<b>Width:</b>	4.0 cm (1.6")	5.6 cm (2.2")
<b>Height:</b>	4.8 cm (1.9")	5.2 cm (2.0")
<b>Weight:</b>	120 g (4.3 oz)	160 g (5.7 oz)

This document is subject to change without notice.