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Thales Gemalto MRZ and MSR Swipe Reader CR100M

Identity & Biometric Solutions

Key features and functionality

- USB2.0 output
- USB powered (no power supply), single interface cable (2m or 15cm options at time of purchase)
- ICAO compliant B900 infra red illumination
- MSR reading of frequent flyer, driving licences and similar documents
- Bi-directional swiping
- Desktop mount for stable, non-slip swiping (optional, user installable)
- Can be attached to a keyboard, LCD or other device/mounting using 3M™ Dual Lock™ fasteners
- Windows® 7, Windows® 8.1, Windows® 10, Androidand Linux® compatible
- Cable exit points are user changeable
- Read success is shown using a red, green, blue LED indicator
- Customer can design bespoke brackets, using dual screw fixing
- VESA monitor mount (option)
- OEM and integrators options available

Product Use

The Gemalto 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. Key benefits are:

- Fast and accurate data capture
- Easy to use either left or right handed
- Desk mount or Keyboard/LCD/ laptop attachment using double sided fasteners
- Bespoke bracket mount options for shelves and mobile devices
- Applicable to banking, border control, law enforcement, transportation, hotel, car hire and retail markets
- Perfect for registration, enrollment and duty-free applications

Reading Capability

- 2 and 3 line ICAO compliant documents in near infrared (IR) 875nm per ICAO 9303 specification
- Near ICAO compliant travel documents such as French ID cards
- 1 line driving licenses to ISO 18013 as well as many other non-ICAO 1 line ID cards
- For information on reading other document types (e.g. bankers cheques) contact your sales representative
- 3 track magnetic swipe card conforming to ISO 7811/2-5 including AAMVA

Comprehensive Software Development Kit

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

Power

- USB powered, <400mA peak

Status Indicators

- The Gemalto MRZ and MSR Swipe Reader CR100M provides user feedback via a user LED including power / self test indication. Status indicators can be under host control depending on control program loaded

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Configuration

- Configurable via USB interface
- Non-volatile configuration held in reader
- Firmware can be updated in field

Minimum PC Specifications

Software must be installed on a customer-supplied PC, some aspects of read speed may be affected by PC specification. The following minimum configuration is
recommended:

- 2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended)
- 1 GB DRAM
- USB 2.0
- 60 MB of Hard Drive space for software
- Windows® 7, Windows® 8.1 or Windows® 10 operating systems, 32 or 64 bit
- Builds for Ubuntu and CentOS LTS, 32 & 64 bit
- Android (limited SDK functionality)

Regulatory

- UL and UL-C
- CB report
- FCC Part 15 Class A
- CE -EMC & LVD
- EU WEEE, REACH & RoHS directives

Operating Environment

- Operating Humidity: 40 to 90% (R.H. non-condensing)
- Operating Temperature: 5 ºC to 35 ºC (41 ºF to 95 ºF)
- Storage Humidity: 40 to 95% (R.H. non-condensing)
- Storage Temperature: -10 º to 60 ºC (14 ºF to 140 ºF)

Models

- CR100M with 15cm cable
- CR100M with 200cm cable
- CR100M with 15cm cable and desk mount
- CR100M with 200cm cable and desk mount
- CR100M OEM kit (read heads, glass and cable)

Standard Dimensions (Approx)

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