



# CONTACT SMART CARD READER FOR MOTOROLA MC91XX AND MC90XX COMMON ACCESS (CAC) CARD AND SMART CARD READER



## Smart Card Compatibility

This accessory for the MC91XX and MC90XX series of terminals provides a Smart Card Reader capable of reading Common Access (CAC) Cards as well as Smart Cards compliant with ISO7816-1,2,3,4. The Smart Card Reader supports T=0 and T=1 protocols, Class A and Class B cards. A PC/SC compliant driver is provided.

The smartcard reader attaches as a snap on to the bottom of the terminal using standard quick release clips allowing operation with the full MC91XX and MC90XX range. The smartcard reader can be quickly detached to allow the use of standard cradles but the reader includes a DC input and Mini USB socket. The DC input socket is used with a standard Motorola power supply (Part Number 50-14000-148R, PWRS-14000-148R or PWRS-14000-148C) to charge the mobile computer without removing the smartcard reader.

The mini USB socket can be used to communicate with a PC for ActiveSync connections or other peripherals, such as printers (subject to suitable driver and USB host support on the terminal).

## Durability

The smart card connector meets the requirements of ISO 7816-2 and is rated for a minimum of 500 000 insertion cycles. It uses landing contacts which touch the card only when it is almost fully inserted to minimize card and contact wear. It is suitable for ID-1 format cards as per ISO 7810.

## Features:

- Provides simple upgrade path for standard MC91XX and MC90XX terminals
- Compliant to ISO7816-1,2,3,4
- Communication speed up to 115.2 kbits/s to host, 420 kbits/s to card
- Supports embossed cards
- Compact enclosure - 95x80x40 mm
- Powered by host terminal
- Suitable for Class I, II, III Division 2 Hazardous Locations – DUE Q2 2013
- Lightweight – 155g

Please Note: This is a semi-custom, built-to-order product – minimum order quantities apply. Please contact TSL to discuss your requirements.

# SPECIFICATIONS

## Physical Characteristics

Dimensions:	95 x 80 x 40 mm (including clips)
Weight:	155g
Mechanical attachment:	Standard quick release clips
User feedback:	Green LED indicates smartcard reader powered on Orange LED indicates smartcard being read.
Power:	Peripheral powered by host terminal

## Smart Card Reader

Power Source:	Host computer switched 3.3V output
Average Current consumption:	Maximum 70mA supplying maximum smartcard current (Voltage Class A)

## Environmental Characteristics

Operating Temp.:	-20°C to +50°C (-4°F to 122°F)
Storage Temp.:	-40°C to +70°C (-40°F to 158°F)
Humidity:	95% RH Non Condensing
Enclosure material:	PC
Enclosure IP rating:	Internal electronics IP 64

## Regulatory

EMC:	EN 55022:2010, EN 55024:2010 USA – FCC Part 15 Class B Canada – ICES-003 Class B
Ordinary Location Safety:	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 UL 60950-1 CSA C22.2 No. 60950-1-07 + A1:2011, EN 60950-1:2006 + A1:2010 + A11:2009 + A12:2011
Hazardous Locations:	Class I, II, III. Division 2 Groups A,B,C,D,F,G (only in combination with a terminal rated for Hazardous Location operation) – Due Q2 2013

# PART NUMBERS

1139-01-SO-MC9X00-CAC	Smart Card Reader for MC91xx and MC90xx
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# WARRANTY

The TSL 1139 reader is warranted against defects in workmanship and materials for a period of one year (12 months) from date of shipment, provided the product remains unmodified and is operated under normal and proper conditions.

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# ABOUT

## ABOUT TSL®



Technology Solutions UK Ltd (TSL®), part of HID Global, is a leading manufacturer of high performance mobile RFID readers used to identify and track products, assets, data or personnel.

For over two decades, TSL® has delivered innovative data capture solutions to Fortune 500 companies around the world using a global network of distributors and system integrators. Specialist in-house teams design all aspects of the finished products and software ecosystems, including electronics, firmware, application development tools, RF design and injection mould tooling.

TSL® is an ISO 9001:2015 certified company.



ISO 9001: 2015

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## ABOUT HID GLOBAL



**HID Global powers the trusted identities of the world's people, places and things.** We make it possible for people to transact safely, work productively and travel freely. Our trusted identity solutions give **people** convenient access to physical and digital **places** and connect **things** that can be identified, verified and tracked digitally. Millions of people around the world use HID products and services to navigate their everyday lives, and billions of things are connected through HID technology. We work with governments, educational institutions, hospitals, financial institutions, industrial businesses and some of the most innovative companies on the planet. Headquartered in Austin, Texas, HID Global has over 4,000 employees worldwide and operates international offices that support more than 100 countries. HID Global is an ASSA ABLOY Group brand.

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