

1157 CONTACT SMART CARD READER FOR MOTOROLA MC55/65/67 PRELIMINARY SPECIFICATION



A Snap-on Solution

This accessory for the MC55/65/67 series of terminals provides contact Smart Card functionality. The unit attaches as a snap on to the bottom of the terminal. The mechanical design of the module enables the attachment to remain compatible with existing MC55/65/67 accessories such as the desktop charge cradle.

The USB port from the terminal is brought through to the docking connector on the bottom of the Smart Card snap-on to provide ActiveSync connectivity to the terminal. Charge is passed through to allow the host terminal to be charged without removing the card reader.

Fully Compliant Smart Card Reader

The Smart Card Reader is compliant to ISO7816-1,2,3,4 and supports T=0 and T=1 protocols. A PC/SC compliant driver is provided. The reader is suitable for a wide range of applications across government, enterprise and financial sectors.

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.

Features:

One Piece Charging

The reader is powered by the MC55/65/67, and charging is passed through the reader's docking connector to the host terminal

Standards based solution

Compliant to ISO7816-1,2,3,4 and supports T=0 and T=1 protocols

Reader Performance

420 kbits/s to card. Supports embossed cards



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Physical Characteristics

Dimensions (max):	100mm × 88mm × 35mm
Weight:	108g
Enclosure material:	GE Lexan Polycarbonate
Colour:	Black
Material finish:	Sparkled surface

Contact Smart Card Reader

Compliance:	ISO7816-1,2,3,4 T=0, T=1 Protocol 2 wire (SLE 4432/42, S=10), 3 wire (SLE 4418/28, S=9) and I2C (S=8) also supported by reader hardware
Power Source:	MC55/65/67 switched USB 5V output
Current consumption:	Typically 35mA, excluding smart card operating current
Smart Card Clock Frequency	Up to 8MHz
Supported Card Types	5V, 3V and 1.8V Smart Cards ISO7816 Class A, AB and C
Power to Smart Card	60mA

Environmental

Operating Temp.:	-10°C to +50°C
Storage Temp.:	-40°C to +70°C
Humidity:	Up to 95% Relative humidity Non Condensing

Regulatory

Electrical Safety:	TBC
EMC:	TBC

PART NUMBERS

1157-SO-MC67-CSC	Smart Card Reader for Motorola MC55/65/67
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WARRANTY

The TSL 1157 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.

ABOUT TSL

TSL designs and manufactures both standard and custom embedded, snap on and standalone peripherals for handheld computer terminals. Embedded technologies include:

- RFID - Low Frequency, High Frequency & UHF
- *Bluetooth*® wireless technology
- Contact Smartcard
- Fingerprint Biometrics
- 1D and 2D Barcode Scanning
- Magnetic Card Readers
- OCR-B and ePassport

Utilizing class leading Industrial design, TSL develops products from concept through to high volume manufacture for Blue Chip companies around the world. Using the above technologies TSL develops innovative products in a timely and cost effective manner for a broad range of handheld devices.

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