1145 MAGNETIC SWIPE READER FOR THE MOTOROLA ET1 TABLET
ENCRYPTED MAGNETIC SWIPE READER

MOTOROLA SOLUTIONS
Validated

Features:

Low Frequency RFID reading & writing

Supports reading and writing (when supported by the transponder) to Low Frequency RFID tags, including those compatible with industry standards ISO 11784, ISO 11785 and ISO 18000-2

A Compact and Convenient Solution

The 1145 Magnetic Swipe Reader is a compact screw-on peripheral for the Motorola ET1 Tablet. It's 3 track Encrypted Magnetic Card Reader allows magnetic stripe data to be read accurately and decoded in a secure, encrypted format.

Applications:

- Payment Applications
- Public Transportation Terminals
- Customer Loyalty
- Time and Attendance
- Network Access Control
- Automatic Fare Collection

Advanced Encryption

The 1145 Magnetic Swipe Reader incorporates cutting-edge hardware and encryption methods which allow the electronics to be embedded within the read head. The 1145 MSR not only performs the magnetic stripe data decoding, it also contains a microprocessor that handles encryption and communications.

The built-in encryption engine supports DES, TDES, and AES encryption with DUKPT key management. The information can be encrypted before leaving the read head, making this a perfect solution for applications requiring increased levels of security.

Compatibility

The reader remains compatible with existing MC70/75/75A accessories such as the single slot cradle and car charger

Connectivity

USB and MC70/75/75A charge connections are brought through to the base of the LF RFID reader to allow charging and ActiveSync over USB with the Reader attached

Applications
- Logistics
- Authentication
- Animal Tagging
- Time and Attendance

SPECIFICATIONS

Physical Characteristics

Dimensions (WxLxH):	5.67 x 3.93 x 2.70 cm (2.23 x1.55 x 1.06 in.)
Weight:	28g (1oz)
Mechanical attachment:	Screw-on action
Docking:	Attachment maintains dockability with Motorola docking cradle for charging and syncing
Power:	Peripheral powered by Motorola ET1 tablet

Magnetic Card Reader

Format:	ANSI, ISO, AAMVA, CA DMV, user-configurable generic format
Swipe Speed:	127 to 1270 mm (5 to 50 in.) / sec, bi-directional
Decoders:	Generic, Raw Data
Track Reading Capabilities:	Tracks 1 and 3: 210 bpi Track 2: 75 and 210 bpi, autodetect
Connection:	Via ET1 USB host port for power and communication
Security:	Built-in encryption engine DES, Triple DES and AES Encryption DUKPT key management In-head electronics to prevent tampering

Environmental

Operating Temp.:	0°C to +50°C (32°F to 122°F)
Storage Temp.:	-40°C to +70°C (-40°F to 158°F)
Humidity:	Up to 85% Relative humidity Non Condensing
Drop Spec:	Multiple 4ft./1.2m drops to concrete
Sealing:	IP54 when fitted to ET1
Electrostatic Discharge (ESD):	+/-8kV air discharge, +/-4kV direct discharge
ROHS	Complies with Directive 2002/95/EC

Regulatory

Electrical Safety:	IEC 60950-1:2005 (2nd Ed 2005: A1:2009) EN 60950-1:2006+A11:2009+A12:2011 AS/NZS 60950.1:2011 UL 60950-1 (CAN C22.2 CSA 60950-1), 2nd Ed, A1:2011 CAN/CSA-C22 NO. 60950-1-07 (R2012)
EMI/RFI:	Title 47 of the CFR: 2010, Part 15 Subpart (b) – Unintentional Radiators, Class B limits. ICES-003 Issue 5, Class B limits. EN 55022:2010. EN61000-4-2:2009. EN61000-4-3:2006 + A2:2010.

PART NUMBERS

1145-ET1-MSR	1145 Magnetic Swipe Reader for the Motorola ET1 Tablet

WARRANTY

The TSL 1145 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.

CONTACT

Address:	Technology Solutions (UK) Limited, Suite C, Loughborough Technology Centre, Epinal Way, Loughborough, Leicestershire, LE11 3GE. United Kingdom.
Telephone:	+44 (0)1509 238248
Fax:	+44 (0)1509 220020
Email:	enquiries@tsl.uk.com
Website:	www.tsl.uk.com

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