

Product Numbers: CA00003843
M-00354 (SDI010)

Product Use



The 3M™ ePassport Pad is used to extract information from the Logical Data Structure (LDS) stored on a contactless integrated circuit (IC) of next generation travel documents. The pad can scan and access data contained in ICs and can also be used to write data to the IC during the document issuance process.

The 3M ePassport Pad offering incorporates the following components:

1. The 3M ePassport Pad
2. ePassport Manager Software and SDK

Software must be installed either on a 3M provided CPU module, or on a customer provided PC

Key Standard Features & Functionality

Requires ePassport Manager and its SDK on a customer provided PC or 3M CPU module

- Contactless IC reading and writing capability
- ISO 14443 Type A and Type B ICs
 - Supports reader to chip transfer rate of 424 Kbps when applicable (IC dependent)
 - Provides functionality according to ICAO NTWG Technical Reports
 - Communicates with contactless IC placed in any location within the document
- Provides complete access to all data and images captured via SDK
- Windows® 2000-SP4, XP or Vista® compatible
- Full speed USB 2.0 (12 Mbps) compliant
- Durable construction
- No moving parts
- Anti-skid base

Reading Capability

The 3M ePassport Pad reads the following (functions provided by the software development kit):

- ePassports and ICAO-compliant national IDs (via contact or contactless interfaces)
- The LDS of all ICAO compliant documents per ICAO 9303 specification
- ISO 14443 Type A and B contactless ICs (13.56 MHz)
- Basic Access Control and Extended Access Control of ePassports
- Active and Passive Authentication of ePassports

Smart Card Support

- T=0, T=1 protocol support
- Communication speed up to 344,105 bps (PPS, FI parameter)
- Frequency up to 8 MHz (PPS, DI parameter)
- Supports ISO 7816 Class A and AB smart card
- 8 contacts – ISO location
- 100 000 insertions
- Sliding Contact

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Software/Firmware Upgrade	<ul style="list-style-type: none"> • Upgradeable firmware via USB 2.0 interface • Non-volatile configuration
Compliance	<ul style="list-style-type: none"> • FCC Part 15 Class B • UL, UL-C • CE
Operating Environment	<p>The reader operating environment specifications are as follows:</p> <ul style="list-style-type: none"> • Humidity: 20 to 80 % (R.H. non-condensing) • Temperature: 0° to 50° C operating; -20° to 50° C storage
Dimensions	<ul style="list-style-type: none"> • Width: 77 mm • Depth: 117 mm • Height: 20 mm
Power	<p>The 3M ePassport Pad is supplied with power through the USB bus.</p>
Minimum PC Specifications	<p>Software must be installed on a customer-supplied PC, or on an optional 3M CPU module (see below). If the software is to be installed on a customer-provided PC, the following <i>minimum</i> configuration is recommended to maintain the processing speed indicated above:</p> <ul style="list-style-type: none"> • 1.7 GHz Pentium 4 • 256 Mb DRAM • USB 2.0 • 80 Mb of Hard Drive space for software • Windows 2000-SP4 or XP
3M CPU Module (optional)	<p>Contact 3M for details</p>
Service & Maintenance	<ul style="list-style-type: none"> • One-year warranty • 24-hour service request via toll-free number • Annual maintenance agreement available
Contact 3M	<ul style="list-style-type: none"> • www.3M.com/security/IA • +1 613-722-2070 or 1-800-581-2631

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