



# Contactless Smart Credential

*Using MIFARE DESFire™ EV1 Technology*

XceedID's new contactless smart credential puts you in control by delivering smarter solutions. The credential protects your most sensitive data by utilizing extra layers of security protection – mutual authentication, AES 128-bit diversified key encryption, and message authentication coding (MAC), giving the highest security in the industry to each transaction between the contactless smart credential and reader.

The contactless smart credential by XceedID features the most rapid data transfer (up to 848 kbps baud rate) in the industry – up to 32 times faster than the most common competing credential system.




The open architecture design of XceedID's new contactless smart credential is built to ISO 14443 standards allowing a wide range of card applications such as biometrics, transit and point of sale applications such as cashless vending and cafeteria services. Built to the latest in credential technology (MIFARE DESFire EV1), XceedID's new contactless smart credential utilizes superior data storage – 2K, 4K, and 8K bytes (16K, 32K, and 64K bits) of memory, providing up to four times the storage of other leading competitor products.

More secure, more speed, more data storage.



## High-level security, open architecture to align with your priorities



Contactless Smart Credential Specifications			
	ISO Glossy White	Clamshell	PVC Patch
			
<b>Dimensions</b>	Inches: 3.37 x 2.125 x 0.033 cm: 8.56 x 5.4 x 0.084	Inches: 3.37 x 2.125 x 0.075 cm: 8.56 x 5.4 x 0.19	3.5 cm
<b>Weight</b>	0.212 oz. (6 g)	0.317 oz. (9 g)	0.045 oz. (1.33 g)
<b>Read range*</b>	Up to 2.5 to 6 inches	Up to 2.5 to 6 inches	Up to 2 inches
<b>Frequency</b>	13.56 MHz	13.56 MHz	13.56 MHz
<b>Operating temperature</b>	-50° to 160°F (-45° to 70°C)	-50° to 160°F (-45° to 70°C)	-50° to 160°F (-45° to 70°C)
<b>Material</b>	PVC	Hard shell: ABS Cover label: PVC	PVC/adhesive backing
<b>ISO Standard</b>	ISO 14443	ISO 14443	ISO 14443
<b>Baud rate (data transfer)</b>	848 kbps	848 kbps	848 kbps
<b>Memory options</b>	2K, 4K and 8K bytes (16K, 32K and 64K bits)	2K, 4K and 8K bytes (16K, 32K and 64K bits)	2K, 4K and 8K bytes (16K, 32K and 64K bits)
<b>Encryption</b>	AES 128-bit diversified keys	AES 128-bit diversified keys	AES 128-bit diversified keys
<b>Smart card chip</b>	MIFARE DESFire™ EV1	MIFARE DESFire EV1	MIFARE DESFire EV1
<b>Certifications</b>	GSC-IS**	GSC-IS**	GSC-IS**
<b>Part numbers†</b>	8520 (2K bytes)	8420 (2K bytes)	8720 (2K bytes)
	8540 (4K bytes)	8440 (4K bytes)	8740 (4K bytes)
	8580 (8K bytes)	8480 (8K bytes)	8780 (8K bytes)

\* Factors affecting read range include installation conditions such as voltage, location of power supply and mounting material.

\*\* Government Smart Card Interoperability Specifications.

† Contact an XceedID representative for additional configurations and part numbers.



888.943.1356 · www.xceedid.com

MIFARE® and DESFire™ are registered trademarks of NXP B.V.

© 2010, XceedID Corporation. All rights reserved. Revision 2/2010. ES-5805