ScrambleFactor

High-Assurance Biometrics and Multi-Factor Authentication Reader

ScrambleFactor is a forward-thinking, software-driven, user-friendly three-factor authentication reader.

ScrambleFactor reimagines secure entry for the federal market with a fingerprint sensor, LCD touchscreen, virtual keypad, contact and contactless credential modes. The ScrambleFactor enables multiple authentication methods to deliver unparalleled security, speed, and functionality.

ScrambleFactor offers federal users up to three-factor authentication suitable for the most secure areas.

This dynamic device supports PIN, contactless and contact (PIV, PIV-I, CAC, TWIC), with fingerprint matching technology.

With a 4.3-inch diagonal screen featuring viewing restrictors, ScrambleFactor ensures privacy and high security in restricted access environments.

High Assurance Security

- Supports comprehensive multi-factor authentication for enhanced security policies

Superior Performance

- Compatible with OSDP and FICAM modes, continues to provide the industry's fastest credential processing performance

Flexible Installation

- Easily retrofitted into existing Hirsch mounting boxes or wall mounted, ensuring a smooth upgrade path

Software Compatibility

- Requires Hirsch Velocity security management system

Specifications

Model	SF.3 HF	SF.3 HF/LF
Part Number	8403ABTM000	8413ABTM000
Description	TS ScrambleFactor SF.3 HF, SC, Fingerprint RS485/OSDP Reader	TS ScrambleFactor SF.3 HF/LF, SC, Fingerprint RS485/OSDP Reader
Keypad	12-character	
Carrier Frequencies	13.56 MHz	13.56 MHz and 125 kHz
13.56 MHz Compatibility	PIV, PIV-I, CAC, TWIC, uTrust TS, MIFARE Classic, DESFire EVx, ISO15693 UID, ISO14443 UID	
125 kHz Compatibility	N/A	HID® Prox, Indala®, CASI-RUSCO®, AWID and others
Contact Smartcard	Conforming to ISO-7816 in the ID-1 form factor	
Biometric	Fingerprint: Optical, FBI certified (FIPS 201, PIV, and Mobile ID FAP 10 compliant) and STQC certified	
Multimodal	Multimodal assurance level support in Velocity 3.8.6	
Data Protocol	RS-485/OSDP (2 wire - half duplex)	
Current @12V	260mA Average, 320mA Max	
Power Supply	12VDC	
Dimensions	H 6.14 in. (15.6 cm) x W 4.45 in. (11.30 cm) x D 1.93 in. (4.90 cm)	
Product Weight	14.88 oz (420 g)	
Housing Material	UL 94 Polycarbonate, Black	
Screen	TFT LCD with view restrictors, 4.3 in, 800 x 480 resolution, capacitive touch	
Fingerprint Template Format	ANSI INCITS 378-2004 and ISO/IEC 19794-2	
Operating Temperature	32° to 120° F (0° to 49° C)	
Storage Temperature	-4° to 149° F (-20° to 65° C)	
Operating Humidity	5% to 95% relative humidity (non-condensing)	
Environmental Rating	IP55	
Connection	Terminal Strip	
Status Indicator	Red/Green LED, Buzzer	
Data Cable Distance	RS-485 4000 ft. (1200 m) minimum 22 AWG shielded twisted pair. Refer to Hirsch public documentation for wiring recommendations.	
Certifications	FCC, UL 294, CE, IC, RCM, RoHS2, REACH, UKCA	
Warranty	2 year limited warranty	
Mounting Accessories	MB2, MB2S, MB2SL, MB3, MB4, MB5, MB5-S	

Contact your Regional Sales Manager or sales@identiv.com with version compatibility questions.