

ESMART® Reader

STONE Series

Two dimensions, many opportunities



69 mm



45 mm

Gangbox

Gangbox housing is suitable for installation on any flat surfaces and features a big area for custom laser engraving

Mullion NEW

Mullion housing featuring width of 45 mm perfectly fits for door applications requiring a narrow reader

Different technologies, one reader

MIFARE® Classic

Works with MIFARE® Classic credentials reading the UID or Sector Data with Crypto 1 key encryption

MIFARE® Plus

Works with MIFARE® Plus credentials reading the UID or Sector Data in SL3 mode with AES128 key encryption. Backward compatible with SL1 mode

Bank cards

Supports reading of bank cards in different modes. Reading mode is determined by facility requirements

ISO14443A / ISO15693

Reads the UID from any ISO14443A and ISO15693 credentials in a range up to 15 cm

NFC + BLE

Compatible with 2.4 GHz (BLE) and 13.56 MHz (NFC) mobile credentials powered by ESMART® Access on iOS and Android

ESMART® Access

Supports Secure Multi-layered credential technology with five degrees for data authenticity and privacy protection

Access guarded

Protected container

ESMART® Access technology

- AES-128 encryption
- Diversification of encryption keys
- Credential CMAC signature
- Protection against Replay attacks
- Globally Unique User Identifier

iOS and Android

-Works via BLE
-Works via NFC

JCOP card

- Bank-level chip platform
- Applet for Access control
- Co-brand capabilities





Mobile enabled

ESMART® Access mobile application

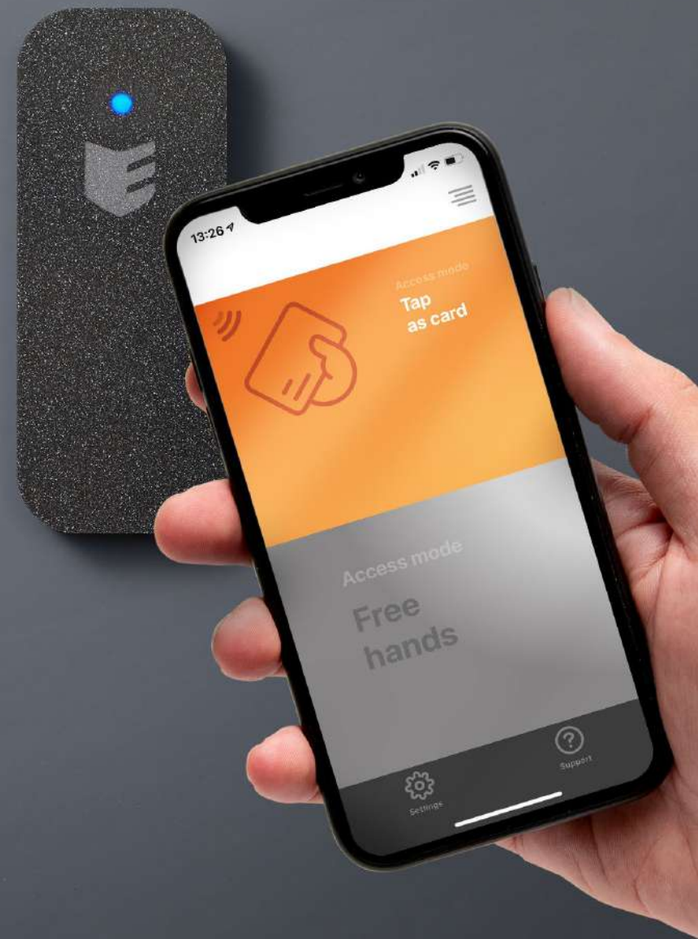
Use your phone with a virtual card along with a regular smartcards in a more convenient way

iOS

Mobile identification works via BLE with iPhones thanks to secure ESMART® Access technology

Android

Depending on operation mode and phone model identification works via NFC or BLE



Canvas for self-expression

Individual housing color

DuPont Corian® device housing color palette consists of more than 100 colors.

Order devices that fit your interior concept perfectly



Order option:
EO1720 – for Gangbox
EO1520 – for Mullion



Individual laser engraving

Option of individual laser engraving provides limitless possibilities of placing the brand logo or a suitable designer pattern all over the device surface

Order option:
EO1780 – for Gangbox
EO1580 – for Mullion

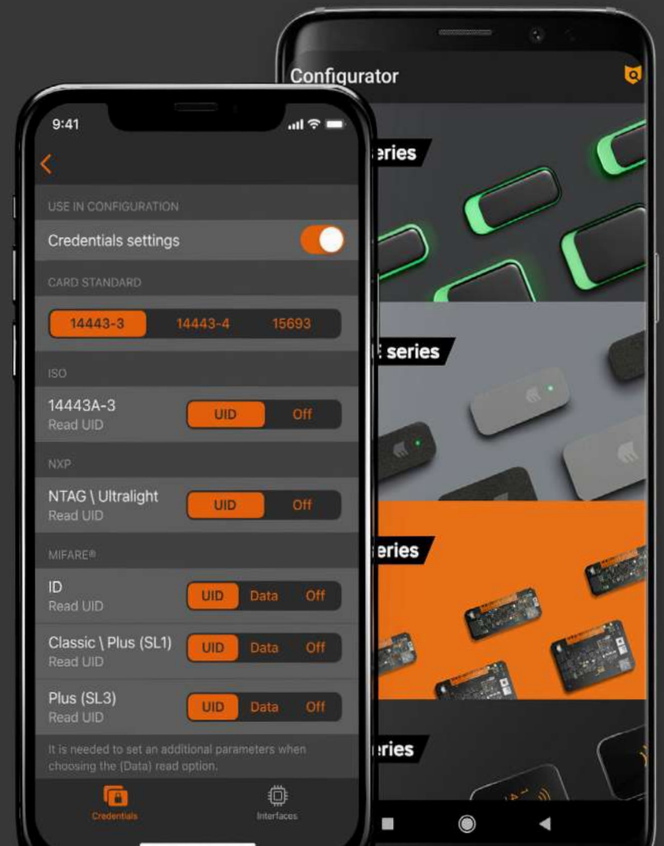
Reader management in the field

ESMART® Configurator mobile application

Access Contol Administrators and Installers can manage ESMART® Readers right on the wall via BLE or NFC. It is possible to configure: Credentials reading modes, Wiegand output settings, BLE settings (range and reading frequency), LED and Buzzer behavior and other settings

User Configurations NEW

Recently introduced opportunity to create User Configurations right in the mobile application for advanced users



It is possible to order a batch of devices with individual configuration from the factory

Order option:
EO1790 – for Gangbox
EO1590 – for Mullion

Challenges. Accepted

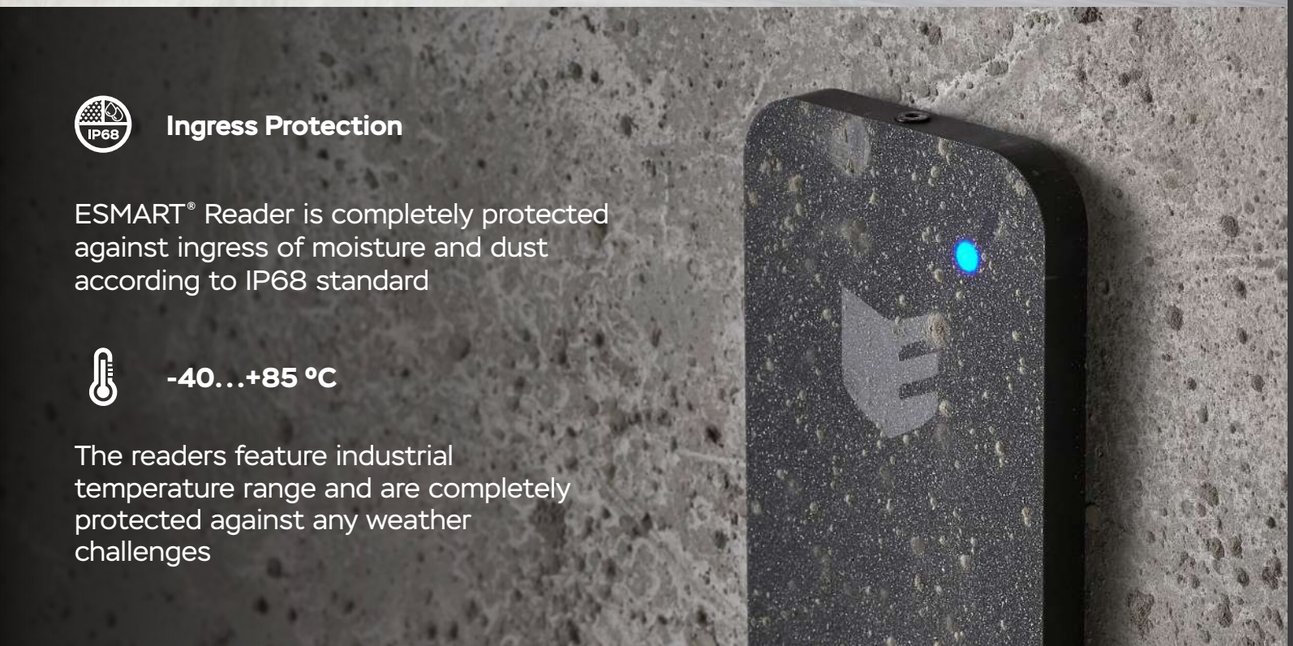


Metal Installation Kit

Installation on a metal surface reduces the reading range significantly.
The special material of the Kit helps to restore up to 70 % of the original range.

Installation Kit is provided with adhesive surface. The Kit includes two plates. It is recommended to install one on another to achive the maximum reading range

Order model:
EA1140 – for Gangbox
EA1540 – for Mullion



Ingress Protection

ESMART® Reader is completely protected against ingress of moisture and dust according to IP68 standard

-40...+85 °C

The readers feature industrial temperature range and are completely protected against any weather challenges

Perfect fit

Expanded device Lineup NEW

The product line of ESMART® Reader series STONE has been supplemented with the LITE Lineup launch. Both product lines (BLE and LITE) are supplied in two housing dimensions (Gangbox and Mullion) featuring the same appearance and custom design capabilities. The devices differ functionally only.

Now you are able to combine the device models within one project to find an optimal and cost-effective solution perfectly fitting your project needs

	LITE Lineup	BLE Lineup
Mobile access	Not supported	ESMART® Access via BLE and NFC
Credentials	ESMART® Access, MIFARE® Classic, Plus (SL1/SL3), ISO14443 (UID)	LITE + ISO15693 (UID)
Bank cards	Read the UID, MIFARE® emulation mode	LITE + Read the CPLC
Reader management	Via NFC	LITE + Via BLE
Output	Wiegand 26...58, custom	Wiegand 26...58, custom

Housing colors collection



Silverite
Order option: EO1722



Silverite
Order option: EO1522



Deep Titanium
Order option: EO1732



Deep Titanium
Order option: EO1532



Anthracite
Order option: EO1721



Anthracite
Order option: EO1521



Deep Cloud
Order option: EO1731



Deep Cloud
Order option: EO1531



Carbon Concrete
Order option: EO1726



Carbon Concrete
Order option: EO1526



Dove
Order option: EO1733



Dove
Order option: EO1533



Silver Gray
Order option: EO1729



Silver Gray
Order option: EO1529



Designer White
Order option: EO1728



Designer White
Order option: EO1528



Cosmos Prima
Order option: EO1724



Cosmos Prima
Order option: EO1524



Citrus Orange
Order option: EO1735



Citrus Orange
Order option: EO1535



Hot
Order option: EO1734



Hot
Order option: EO1534



Gray Onyx
Order option: EO1730



Gray Onyx
Order option: EO1530



Mahogany Nuwood
Order option: EO1740



Mahogany Nuwood
Order option: EO1540



Raffia
Order option: EO1727



Raffia
Order option: EO1527



Imperial Yellow
Order option: EO1736



Imperial Yellow
Order option: EO1536



Blooming Green
Order option: EO1737



Blooming Green
Order option: EO1537



Evening Prima
Order option: EO1725



Evening Prima
Order option: EO1525



Juniper
Order option: EO1739



Juniper
Order option: EO1539



Verdant
Order option: EO1723



Verdant
Order option: EO1523



Laguna
Order option: EO1738



Laguna
Order option: EO1538

Readers






Model	ER1711 LITE	ER1511 LITE	ER1701 BLE	ER1501 BLE
Housing	DuPont Corian®			
Color	Anthracite / Silverite / Custom			
2.4 GHz (BLE) Credential Compatibility	–		ESMART® Access Mobile Credentials	
13.56 MHz (NFC) Credential Compatibility	• ESMART® Access • MIFARE® Classic, MIFARE® Plus (SL1 / SL3) • ISO14443A • Bank cards		• ESMART® Access • MIFARE® Classic, MIFARE® Plus (SL1 / SL3) • ISO14443A and ISO15693 • ESMART® Access Mobile Credentials • Bank cards	
Typical Read Range (NFC)	Up to 4 in (10 cm)			
Typical Read Range (BLE)	–		Up to 33 ft (10 m)	
Connection Interface	Wiegand			
Data Communication Format	Wiegand 26, 34, 58, custom. Wiegand 26 in basic configuration			
Pigtail Length	18 in (0.5 m)			
Operating Voltage	5-16 VDC			
Current Draw	Peak: 150 mA at 12V			
Device Input	Input: Four-mode LED (RLED, GLED), Buzzer (BUZZ) @ Active Low			
Device Management	Via NFC only using Master Card		Via NFC using Master Card and via BLE	
Configuration capabilities with ESMART® Configurator mobile application	• ISO 14443-3: UID / Off • ISO 14443-4: UID / Off • NTAG / Ultralight: UID / Off • MIFARE® Classic / Plus (SL1): UID / DATA / Off • MIFARE® Plus (SL3): UID / DATA / Off		• MIFARE® DESFire: UID / Off • ESMART® Access NFC HCE: On / Off • ESMART® Access JCOP: On / Off • RGB LED and Buzzer settings	• Sector number, block number, data length and offset. Encryption keys. • Data format, quantity and byte order transmitted through Wiegand interface, parity bits
	• Bank cards: UID / Off		• Bank cards: UID / CPLC / Off • Other JCOP: UID / CPLC / Off • ISO15693: UID / Off • ICODE SLIX2: UID / Off • ICODE DNA: UID / Off • ESMART® Access BLE: range and reading frequency	
Mounting	Flat surface	Door installations	Flat surface	Door installations
Dimensions (width x length x depth)	4.45 x 2.71 x 0.39 in (113 x 69 x 10 mm)	4.45 x 1.70 x 0.39 in (113 x 45 x 10 mm)	4.45 x 2.71 x 0.39 in (113 x 69 x 10 mm)	4.45 x 1.70 x 0.39 in (113 x 45 x 10 mm)
Product Weight	4.9 oz (139 g)	3.5 oz (100 g)	4.9 oz (139 g)	3.5 oz (100 g)
Operating Temperature & Humidity	-40° F to +185° F (-40° C to +85° C), 0% to 95% non-condensing			
Storage Temperature	-40° F to +185° F (-40° C to +85° C)			
Ingress Protection	According to IP68			
Supplied parts	Reader (1), Master Card (1), Installation kit (1), Installation Guide (1)			
Regulatory	EAC			
Warranty	Limited Lifetime			

Options

Option	Gangbox	Mullion
Anthracite color (base)	EO1721	EO1521
Silverite color	EO1722	EO1522
Verdant color	EO1723	EO1523
Cosmos Prima color	EO1724	EO1524
Evening Prima color	EO1725	EO1525
Carbon Concrete color	EO1726	EO1526
Raffia color	EO1727	EO1527
Designer White color	EO1728	EO1528
Silver Gray color	EO1729	EO1529
Gray Onyx color	EO1730	EO1530
Mahogany Nuwood color	EO1740	EO1540
Laguna color	EO1738	EO1538
Juniper color	EO1739	EO1539
Imperial Yellow color	EO1736	EO1536
Hot color	EO1734	EO1534
Dove color	EO1733	EO1533
Deep Titanium color	EO1732	EO1532
Deep Cloud color	EO1731	EO1531
Citrus Orange color	EO1735	EO1535
Blooming Green color	EO1737	EO1537
Individual housing color	EO1720	EO1520
Individual laser engraving	EO1780	EO1580
Individual configuration	EO1790	EO1590

Accessories





Model	EA1140	EA1540
Supplied parts	Ferrite plate (2)	
Dimensions (width x length x depth)	4.4 x 2.7 x 0.03 in (113 x 69 x 1 mm)	4.4 x 1.7 x 0.03 in (113 x 45 x 1 mm)
Product Weight	0.2 oz (7 g)	0.18 oz (5 g)
Working temperature and humidity	-40° F to +185° F (-40° C to +85° C), 0% to 95% non-condensing	
Storage temperature	-40° F to +185° F (-40° C to +85° C)	
Warranty	Limited Lifetime	