

Cidron



4-IN-1 ACCESS CONTROL READER

OSDP Wiegand Access Control Reader Compatible with QR Code, RFID Smart Card and NFC / BLE Mobile Credential. Support Embedded Secure Element (EAL6+) and Secure Access Module (SAM) for security encryption, can be used in harsh such as dirty or dusty environment.

Product Features



1

Mobile Credential

Support smart phone
via NFC & BLE
credential



2

QR code

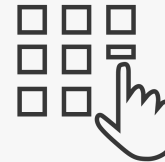
QR code scanner to
support multi-formats
QR Code 1D & 2D
codes, QR & Micro QR
codes and Barcode



3

RFID Smart Card

Support 125KHz &
13.56MHz Mifare® Classic,
Mifare® Plus, Desfire®
EV1/EV2/EV3, NFC Forum
Tag smart card



4

PIN code

Pincode with
backlight LEDs to
give extra indication
for access control



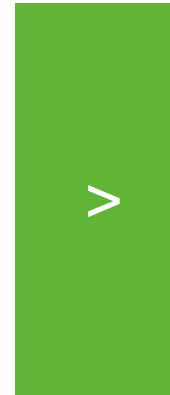
5

Security Level

Embedded Secure
Element Hardware
(EAL6+) and a Secure
Access Module (SAM)
compatible with MIFARE
SAM AV1/AV2/AV3

Slimline Body Reader with Elegant Timeless Design

Cidron Slimline reader is elegant design with only 48.0mm width slimline size, flexible and easy installation for various kinds of narrow occasions.



Standard Size Reader with Elegant Timeless Design

Cidron Standard Reader is elegant design in standard size with or without keypad for various occasion installation.



Slimline QR Code BLE Reader

Cidron Slimline QR Code reader is with QR scanner in modularity design with 48.00mm width slimline size to work with Cidron VG3 family readers.



Standard QR Code BLE Reader

Cidron Standard QR Code reader is easy and flexible for installer to upgrade QR code by using assembling QR code scanner module with Cidron VG3 family readers.

4-In-1 Multiple Identification Modes

MOBILE CREDENTIAL

Touchless access control by using personal smart phone via NFC or BLE 5.3



MULTI-SMART CARD

Support 125KHz EM Prox, EM4XXX and 13.56MHz Mifare®, Mifare® Plus, DESFire® EV1/EV2/EV3, JCOP, NFC tag and ISO14443B



MECHANICAL KEYPAD

12 digit keypad in 4 rows of 3 keys in each row with blue LED backlit controlled to ON/OFF and auto, intensely adjustable



QR CODE/BARCODE

Multi format QR codes 1D & 2D codes. QR & Micro QR codes, Barcode and QR codes



Your Phone is the Room Key

Touch free access control by using personal smart phone via NFC and BLE 5.3, with configurable BLE reading range for hand free access control.



Dual Frequency Multi-Smart Cards

Cidron Reader support 13.56MHz technologies, MIFARE® Classic , MIFARE® Plus and DESFire® EV1/EV2/EV3 combined with 125KHz technologies, which makes it ideal to use where several card populations with different RFID technologies and/or frequencies should be used at the same time.

Enhanced Security By Encryption Keys and Data Protection



SECURITY LEVEL

- Embedded Secure Element Hardware (EAL6+)
- Secure Access Module: ISO7816 SAM, Mifare® SAM AV1/AV2/AV3
- 13.56MHz Mifare Plus and DESFire EV1/EV2/EV3, Mifare® Desfire® DUOX(On Request) card sector or file reading
- AES encrypted BLE 5.3 and NFC mobile credential



OSDP™

Open Supervised Device Protocol

OSDP™ is a bidirectional communication protocol which provides continuous monitoring of the reader but if applied it also enables AES encrypted communication between the reader and the controller. This so called “Secure Channel” is available in Cidron readers.



Multiple Communication Interfaces

Wiegand, Clock/Data, OSDP 1, OSDP 2 (including Secure channel) and RS485, offer universal compatibility to work with the third party access controller.

Specs	VG2	VG3	VG3(QR)	Cidron E
Reader Housing				
Dimension	Standard: L=109mm, H=25mm, W=79mm Slimline: L=141mm, H=25mm, W=48mm	Standard: L=109mm, H=25mm, W=79mm Slimline: L=141mm, H=25mm, W=48mm	Standard: L=135mm, H=100mm, W=90mm Slimline: L=175mm, H=125mm, W=60mm	L=141mm, H=25mm, W=48mm
RFID Smart Card	13.56MHz ISO14443A/B, ISO15693, NFC, EM125KHz			13.56MHz ISO14443A
Contactless Card Supported	- Mifare® Classic, Mifare® plus, Desfire® EV1/EV2/EV3, JCOP - 14443B UID - NFC Forum Tag - Mifare® Desfire® DUOX (SE-series available, on request) - EM4100/4102	- Mifare® Classic, Mifare® plus, Desfire® EV1/EV2/EV3, JCOP - 14443B UID - NFC Forum Tag - Mifare® Desfire® DUOX (SE-series available, on request) - EM4100/4102/Prox/Crosspoint		Mifare® Classic, Desfire® EV1/EV2
NFC Mobile Credential	Yes	Yes	Yes	No

Specs	VG2	VG3	VG3(QR)	Cidron E
BLE Mobile Credential	No	BLE 5.3	BLE 5.3	No
QR Code	No	No	Yes	No
Security Level	- Embedded Secure Element Hardware (EAL6+) - Secure Access Module: ISO7816 SAM, Mifare® SAM AV1/AV2	- Embedded Secure Element Hardware (EAL6+) - Secure Access Module: ISO7816 SAM, Mifare® SAM AV1/AV2/AV3		No
Communication Interface	Wiegand 24-1024 bit, RS485 (OSDP 1,OSDP 2, including Secure channel), Clock/Data			Wiegand, RS232, RS485 (OSDP 1, OSDP 2, including Secure channel)
Power Supply	9-30 VDC			9-12VDC
Temperature	-40~70°C, with thermostat controlled embedded heater			-20 ~ 60°C without heater
Ingress Protection Classification	IP65 electric epoxy potted (request weather protection casing)			
Harsh Environment	Yes (keypad reader request silicon front plate)	Yes (keypad reader request silicon front plate)	Yes (keypad reader request silicon front plate)	Yes
Configuration Card	Support			
Firmware Upgrade	Support	Support OTA	Support OTA	Support

Part Number	Housing Design			RFID			Mobile Credential			Security Level		Communication Interface				Configuration Card
	Keypad	Slimline	Standard	125KHz	13.56M Hz	ISO14443B	BLE	NFC	QR	SAM	Embedded Secure Element	Wiegand	RS232	RS485	C&D	
Cidron E SERIES																
SC9230-MD-VDI27-S		■			■							■	■			■
SC9230-MD-4C-VDI27-S		■			■							■		■		■
Cidron VG2 SERIES																
SC9100-MD-VDI27-S	■		■		■	■		■		■		■		■	■	■
SC9100-MDE-VDI27-S	■		■	■	■	■		■		■		■		■	■	■
SC9110-MD-VDI27-S			■		■	■		■		■		■		■	■	■
SC9110-MDE-VDI27-S			■	■	■	■		■		■		■		■	■	■
SC9200-W-VDI27-S	■	■			■	■		■		■		■		■	■	■
SC9210-MD-VDI27-S		■			■	■		■		■		■		■	■	■
SE9100-MD-VDI27-S	■		■		■	■		■		■	■	■		■	■	■
SE9100-MDE-VDI27-S	■		■	■	■	■		■		■	■	■		■	■	■

Part Number	Housing Design			RFID			Mobile Credential			Security Level		Communication Interface				Configuration Card
	Keypad	Slimline	Standard	125KHz	13.56M Hz	ISO14443B	BLE	NFC	QR	SAM	Embedded Secure Element	Wiegand	RS232	RS485	C&D	
SE9110-MD-VDI27-S			■		■	■		■		■	■	■		■	■	■
SE9110-MDE-VDI27-S			■	■	■	■		■		■	■	■		■	■	■
SE9200-W-VDI27-S	■	■			■	■		■		■	■	■		■	■	■
SE9210-MD-VDI27-S		■			■	■		■		■	■	■		■	■	■
Cidron VG3 SERIES																
SC93100-MDB-VDI27-S	■		■		■	■	■	■		■		■		■	■	■
SC93100-MDEB-VDI27-S	■		■	■	■	■	■	■		■		■		■	■	■
SC93110-MDB-VDI27-S			■		■	■	■	■		■		■		■	■	■
SC93110-MDEB-VDI27-S			■	■	■	■	■	■		■		■		■	■	■
SC93200-MDB-VDI27-S	■	■			■	■	■	■		■		■		■	■	■
SC93210-MDB-VDI27-S		■			■	■	■	■		■		■		■	■	■
SE93100-MDB-VDI27-S	■		■		■	■	■	■		■	■	■		■	■	■
SE93100-MDEB-VDI27-S	■		■	■	■	■	■	■		■	■	■		■	■	■

Part Number	Housing Design			RFID			Mobile Credential			Security Level		Communication Interface				Configuration Card
	Keypad	Slimline	Standard	125KHz	13.56M Hz	ISO14443B	BLE	NFC	QR	SAM	Embedded Secure Element	Wiegand	RS232	RS485	C&D	
SE93110-MDB-VDI27-S			■		■	■	■	■		■	■	■		■	■	■
SE93110-MDEB-VDI27-S			■	■	■	■	■	■		■	■	■		■	■	■
SE93200-MDB-VDI27-S	■	■			■	■	■	■		■	■	■		■	■	■
SE93210-MDB-VDI27-S		■			■	■	■	■		■		■		■	■	■
Cidron VG3 QR SERIES																
SC93200-MDBQ-VDI27-S	■	■			■	■	■	■	■	■		■		■	■	■
SC93210-MDBQ-VDI27-S		■			■	■	■	■	■	■		■		■	■	■
SC93100-MDBQ-VDI27-S	■		■		■	■	■	■	■	■		■		■	■	■
SC93100-MDEBQ-VDI27-S	■		■	■	■	■	■	■	■	■		■		■	■	■
SC93110-MDBQ-VDI27-S			■		■	■	■	■	■	■		■		■	■	■
SC93110-MDEBQ-VDI27-S			■	■	■	■	■	■	■	■		■		■	■	■
SE93200-MDBQ-VDI27-S	■	■			■	■	■	■	■	■	■	■		■	■	■
SE93210-MDBQ-VDI27-S		■			■	■	■	■	■	■	■	■		■	■	■

Part Number	Housing Design			RFID			Mobile Credential			Security Level		Communication Interface				Configuration Card
	Keypad	Slimline	Standard	125KHz	13.56M Hz	ISO14443B	BLE	NFC	QR	SAM	Embedded Secure Element	Wiegand	RS232	RS485	C&D	
SE93100-MDBQ-VDI27-S	■		■		■	■	■	■	■	■	■	■		■	■	■
SE93100-MDEBQ-VDI27-S	■		■	■	■	■	■	■	■	■	■	■		■	■	■
SE93110-MDBQ-VDI27-S			■		■	■	■	■	■	■	■	■		■	■	■
SE93110-MDEBQ-VDI27-S			■	■	■	■	■	■	■	■	■	■		■	■	■