

Cidron Standard Reader

The Cidron reader family's compatibility with secure RFID-technologies incorporated in a robust, yet timeless design, makes them ideally suited for both indoor- and outdoor installations in all kinds of physical access control applications.









Cidron Standard is a reader operating on 13.56MHz and supports reading for instance MIFARE Classic[®], MIFARE Plus[®] sector, or MIFARE[®] DESFire[®] application which allows for AES128 encrypted communication between credential and reader. Cidron Standard is versatile and can easily be configured to read up to two different card data objects and also handles both 7-byte and 4-byte MIFARE CSN at the same time. This means that you can read credentials from different populations and also gives the possibility of, in a controlled manner, upgrading from reading a less secure MIFARE Classic sector to a more secure MIFARE DESFire application.

Cidron Standard features a contact card socket which is designed to read Secure Access Module's (SAM's) embedded on a SIMcard sized contact chip. Cidron Standard is compatible with MIFARE® SAM AV2 which gives the possibility to further increase the security of storing encryption keys (Evaluation Assurance Level EAL 5+) and also allows for diversification of encryption keys. Using diversified keys means that each card in the card population will have its own unique encryption key and not share the same encryption key across the whole card population.

The Cidron Standard is available both with- and without keypad. The version with keypad has backlit keys that is configurable to always be on, off or in auto mode which means that when a card is presented to the reader or a key is pressed the keypad will light up. The version without keypad has a symbol at the front of the reader which will be lit when a card is presented to a reader configured to auto mode.

The substantial LED frame provides visual indications to the user, the LED frame can indicate green, red or yellow. There is also an embedded buzzer that can be used for audible indications. The LED frame, backlight and buzzer can all be configured to indicate different operations and events using sound or light to communicate with the user. The indications can also be activated by external controls by using general purpose input/ output's (GPI/O's), for instance an individual reader can be configured to light up the LED frame in green or red by the fire alarm system depending on which GPI/O the fire alarm system is connected to.

With the array of communication protocols available in the Cidron reader it makes it extremely versatile and can be installed in most physical access control systems without any additional plug-in modules. The Open Supervised Device Protocol, OSDP™ is a bidirectional communication protocol developed by SIA (Security Industry Association) which provides continuous monitoring of the reader but if applied it also enables AES128 encrypted communication between the reader and the controller. This so called "Secure Channel" is available in Cidron readers.



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Technical specifications

Operating frequency: 13,56MHz.

Reading technologies: MIFARE CSN 4 byte, MIFARE CSN 7 byte, MIFARE Classic, MIFARE Plus, MIFARE DESFire 0.6 and MIFARE DESFire EV1. Also supports other ISO 14443 A/B* compatible cards. *Not all ISO14443 B cards have been implemented in the reader, please contact Seriline for more details on current status. MIFARE is a registered trademark of NXP B.V. and is used under license. Secure Access Module (SAM): MIFARE SAM AV2, external SIM card connection slot. Communication protocols: Wiegand, Clock/Data, OSDP 1, OSDP 2 (including Secure channel), RS232 and RS485. **Reading output format:** 24-1024 (excluding parity bits) Keypad output format: Wiegand 4bit, Wiegand 8bit (Dorado), Wiegand 26bit, OSDP ASCII format. **Keypad:** 12 digit keypad in 4 rows of 3 keys in each row with configurable backlight in blue color. Control features On/Off/Auto indicators. Light itensity can be adjusted. Indicators: LED, Green, Red and Yellow (Bi-color). Backlight in blue color. Buzzer. **Power supply:** 9 – 30VDC Current consumption: 24VDC idle mode with heater inactive 40 mA** 12VDC, idle mode with heater inactive 50 mA** **Current consumption differs depending on functionality used and can also be limited in the reader configuration, please consult the Cidron Standard full installation guide for current consumption before dimensioning power supply. Input/Output: 4 input for LED and buzzer and 2 configurable input/output. Tamper alarm: Built-in mechanical tamperswitch which allows for indication both break off protection and opening of the reader. **Operating temperature:** $-40^{\circ} - +70^{\circ}C$ Heater: Thermostat controlled embedded heater. **Operating humidity:** 0 – 95% RHNC (Relative Humidity No Condensation)

Ingress Protection Classification: IP 65

Housing dimensions: L=109mm, H=25mm, W=79mm

Configuration Methods: Configuration card, reader tool software or factory configured readers.

Cidron RFID Readers

Cidron Standard 13.56MHz with keypad, matte black Cidron Standard 13.56MHz with keypad, matte white Cidron Standard 13.56MHz with keypad, glossy black Cidron Standard 13.56MHz with keypad, glossy white Cidron Standard 13.56MHz without keypad, matte black Cidron Standard 13.56MHz without keypad, matte white Cidron Standard 13.56MHz without keypad, glossy black Cidron Standard 13.56MHz without keypad, glossy white

Part No.

SC9100-MD-VDI27-S SC9100-MD-VDI27-V SC9100-MD-MP-S SC9100-MD-MP-V SC9110-MD-VDI27-S SC9110-MD-VDI27-V SC9110-MD-MP-S SC9110-MD-MP- V

