**CONIC DESIGN**
Energy and Technology

PASSCHIP®
QR Code Reader

Our QR Code Reader offers automatic QR code reading combined with wiegand communication. The QR Code reader transforms seamlessly QR Code reading into a wiegand card ID reader output. It includes all hardware and software required to integrate in standard access control systems, allowing the use of QR codes as temporary cards. It can work in standalone mode or may be connected to any access control platform using the most commonly used data formats like RS232, Clock and Data or Wiegand with up to 64 bits of data. PASSCHIP QR Code can be integrated with a number of Access Control systems, eliminating the need for card double provisioning and allowing QR Code to be invalidated even after distribution to customers.

↑ CardNumber	WorkgroupName	Qr Code
D123#10300	QR	QR CODES
D123#10301	QR	QR CODES
D123#10302	QR	QR CODES
D123#10303	QR	QR CODES
D123#10304	QR	QR CODES
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PASSCHIP

Functions

Our QR Code Reader is an all-in-one system that embeds QR Code scanner and processing in a compact weatherproof housing. No management is required for the QR Code Reader.
Management of the QR Codes is performed on a dedicated PC, using the QR Manager software solution. The QR Code reader decodes the card number information and validity period from the QR code and then sends the card number information to the access control system and trigger a relay used for door unlock. The QR code data also includes a cryptographic signature to prevent unauthorized QR code generation.
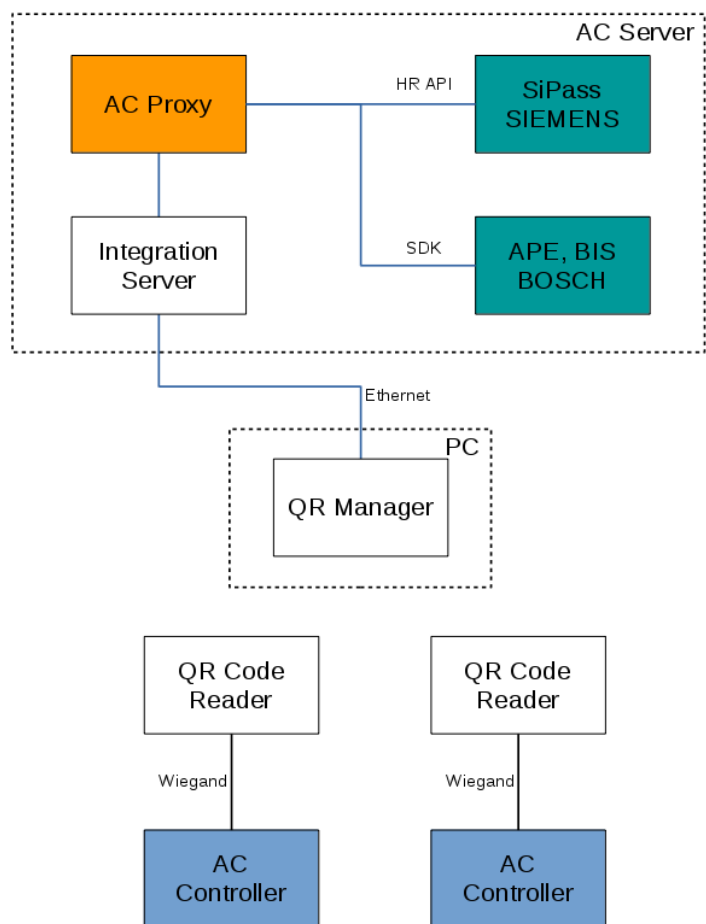
Benefits

The QR Code Reader can work both standalone and as a wiegand standard reader. It doesn't require a network connection, all the required information is embedded in the QR code.
The QR Manager manages the cards used and associated QR codes.
The QR Manager can communicate with the QR Integration Server to import card numbers defined in the access control systems and enforce that the cards are active only during the validity period of the QR codes, thus eliminating double provisioning.
The QR code distribution is performed via locally saved JPEG file or email with JPEG file attached.

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Installation

Ordering Information

- CDQRR 100/1: QR Code reader with Wiegand communication
- CDQRM 100/1: QR Manager software
- CDQRI 100/1: QR Integration Server

Technical Specifications

QR Code Reader	
Communication	Ethernet 100 Base-TX/10Base-T RS232 up to 115200 Bit/sec Clock and Data Wiegand up to 64 bit
Memory	Internal DRAM 1 GB SD slot available 1xMMC Real time clock with back-up Li-Ion battery
Scanner	USB interface, QR code scanner, ambient light 0 - 100,000 lux
Processor	ARM 64-bit, 1.2 GHz, Quad
Operating System	Linux OS
Software Upgrade	On line, during functioning
Power Supply	85-264 VAC, 45-65 Hz 12 VDC
Power Consumption	Max. 10 W
Response time	Max 2 sec
Construction	Aluminum vandal resistant painted case
Agency Approvals and Standards	CE Conformity
Ambient conditions	Operating Temp:-30 C +50 C Storage Temp:-35 C +60 C Humidity: 10-95%
Size of QR Code Reader (W x H x D)	170 x 195 x 80 mm
Weight	4 kg
Protection Class	IP67
Reading distance	3.5 cm – 16 cm
QR Manager	
Max Cards	100.000
Max QR Codes / Access Control Card	50
QR Integration Server	
Compatible with (via AC Proxy)	SiPass – SIEMENS APE, BIS – BOSCH

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