

QR CODE + RFID ACCESS READERS

Q420-M QR Code + RFID Access Reader, Wiegand 26/34, RS485, Slim 86-Box

The Q420-M is an 18 mm slim 86-box wall reader for visitor and staff access. It reads QR and 1D/2D codes, including codes on a phone screen, plus EM and MIFARE cards, and passes them to an access controller or turnstile board. QR range is 0–20 cm, card range 3–6 cm, with Wiegand 26/34, RS232, RS485 and TTL outputs.

- QR codes and cards in one reader — reads QR and 1D/2D codes, printed or on a phone screen, plus 125 kHz EM and 13.56 MHz MIFARE cards.
- Four output types — Wiegand 26/34 for access controllers; RS232, RS485 or TTL serial for turnstile, elevator and host boards.
- Slim 86-box format — 86 × 86 × 18 mm with a zinc-alloy frame and acrylic face, sized for a standard 86 mm wall box.
- Configured by scanning — baud rate (9600, 19200 or 115200), card mode, Wiegand format and backlight are set by scanning setting codes.
- Automatic sensing — scanning starts when a code is presented; decoding takes under 200 ms, confirmed by buzzer and green feedback light.



General	
Model	Q420-M
Type	QR code + RFID access control reader
Form factor	Slim 86-box wall mount
Housing	Zinc-alloy frame, acrylic panel
Color	Black panel, silver frame

Cards & reading	
Card frequency	125 kHz / 13.56 MHz
Card standards	EM4100; ISO/IEC 14443A (MIFARE)
Supported cards	EM cards, MIFARE cards (card number read)
Codes	QR codes and 1D/2D barcodes, including codes on a phone screen
Barcode decoding	Image decoding
Card read range	3–6 cm
QR code read distance	0–20 cm
Reading angle	45°, centered on the lens
Read speed	< 200 ms
Scan trigger	Automatic sensing, buzzer prompt

Interface & output	
Interfaces	Wiegand 26/34, RS232, RS485, TTL
Serial baud rate	9600 / 19200 / 115200 (set by setting code)
Configuration	Scan setting codes: baud rate, card mode, Wiegand format, backlight
Host OS (serial)	Windows XP / 7 / 8 / 10, Linux
Wiring	Red: 12 V; Black: GND; Green: D0; White: D1; Brown: RS485 A; Orange: RS485 B; Blue: RS232 RX; Yellow: RS232 TX
Indicators	Blue work light, green feedback light

Physical & environment	
Power supply	8–12 V DC, 800 mA
Dimensions	86 × 86 × 18 mm
Weight	150 g
Operating temperature	-20 °C to +70 °C
Humidity	10–90 % RH

Works with

- ✓ 125 kHz EM (EM4100) cards
- ✓ 13.56 MHz MIFARE (ISO/IEC 14443A) cards, card number read
- ✓ QR codes and 1D/2D barcodes, printed or shown on a phone screen
- ✓ Access controllers with a Wiegand 26 or 34 input
- ✓ Turnstile, elevator and host boards with RS232, RS485 or TTL serial; Windows XP/7/8/10 and Linux hosts

Not designed for

- ✗ Writing or encoding cards (read-only)
- ✗ USB output to a PC (not a listed interface) — the Q430-M adds mini-USB keyboard or virtual COM output
- ✗ TCP/IP or Ethernet networking
- ✗ Free-text QR content over Wiegand — use serial output, or issue QR codes that carry a hex card number

OEM / ODM options (confirmed per order)

- ◆ Wiegand 26 or Wiegand 34 output, selected by setting code; give your controller's format in the RFQ and we confirm the configuration in your quotation
- ◆ Card-reading mode and panel backlight, both set by setting code
- ◆ Serial baud rate of 9600, 19200 or 115200 to match your turnstile or elevator board
- ◆ Choice of Wiegand, RS232, RS485 or TTL wiring on the same reader, so one part number covers door, turnstile and host projects

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Specifications describe the standard version and may change without notice. Read range depends on the card or tag, mounting and environment. Pricing, configuration, lead time and terms are confirmed in your quotation.