

QR CODE + RFID ACCESS READERS

Q430-M QR Code + RFID Access Reader with USB, Wiegand and RS485, 86-Box

The Q430-M is an 86-box QR code and RFID reader for turnstiles, doors and check-in desks that need more than one output. It reads QR and 1D/2D codes at 0–20 cm and EM or MIFARE cards at 3–6 cm, with Wiegand, RS232, RS485 and TTL on a terminal block plus mini-USB keyboard or virtual COM output.

- USB and panel outputs in one unit — mini-USB keyboard emulation or virtual COM for PC software, plus Wiegand, RS232, RS485 and TTL for controllers and gate boards.
- Terminal block wiring — ten terminals on the rear box (12 V, GND, WG-D0, WG-D1, 485-A, 485-B, 232-TX, 232-RX, TTL-TX, TTL-RX) instead of flying leads.
- IC or IC + ID card mode — read 13.56 MHz MIFARE only, or MIFARE plus 125 kHz EM, selected by scanning a setting code.
- Tempered-glass scan window — CMOS decoding of QR and 1D/2D codes at 0–20 cm and a 45° angle, in under 200 ms.
- Pin-hole reset — insert a pin into the Reset hole on the back to restore factory settings; the reader restarts automatically.



General	
Model	Q430-M
Type	QR code + RFID access control reader
Form factor	86-box wall mount with rear terminal box
Housing	PC with tempered-glass scan window
Color	Black front panel

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)
Card mode	IC only or IC + ID (set by setting code)
Codes	QR codes and 1D/2D barcodes
Barcode decoding	CMOS
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, RS232, RS485, TTL, USB (mini-USB)
USB modes	Keyboard emulation or virtual COM port
Wiegand output	QR content as decimal by default
TCP/IP	Ask in your RFQ; availability confirmed in your quotation
Configuration	Scan setting codes: baud rate, card mode
Terminal block	485-B, 485-A, 232-RX, 232-TX, WG-D1, WG-D0, TTL-RX, TTL-TX, GND, 12 V
Host OS	Windows XP / 7 / 8 / 10, Linux
Indicators	Red work light, green feedback light, green network light
Factory reset	Pin-hole Reset button on the back

Physical & environment	
Power supply	8–12 V DC, 800 mA
Dimensions	86 × 86 × 42 mm
Weight	150 g
Operating temperature	-20 °C to +70 °C
Humidity	10–90 % RH

Works with

- ✓ 13.56 MHz MIFARE (ISO/IEC 14443A) cards in IC-only or IC + ID mode
- ✓ 125 kHz EM (EM4100) cards in IC + ID mode
- ✓ QR codes and 1D/2D barcodes
- ✓ PC software that accepts keyboard input or reads a virtual COM port, on Windows XP/7/8/10 and Linux
- ✓ Access controllers with a Wiegand input; turnstile, elevator and host boards with RS232, RS485 or TTL

Not designed for

- ✗ Writing or encoding cards (read-only)
- ✗ Low-profile surface mounting — the rear terminal box makes the reader 42 mm deep overall, so plan a wall box or cut-out; for an 18 mm profile use the Q420-M
- ✗ OSDP secure channel (Wiegand, serial and USB outputs only)

OEM / ODM options (confirmed per order)

- ◆ Card mode IC only (13.56 MHz) or IC + ID (13.56 MHz + 125 kHz); state your card base in the RFQ and the setting is confirmed in your quotation
- ◆ Serial baud rate set by setting code to match your turnstile or host board
- ◆ USB output as keyboard emulation or virtual COM port, to suit your software
- ◆ TCP/IP network build on request; availability confirmed in your quotation

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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.