SXK-A200QR
Industrial UHF Integrated Reader with LED



RFID Integrated Reader A200QR Series Model Selection Guide								
Model	Communication Interfaces						GPIO	
	RS232	Wiegand	RS485	Ethernet	4G	PoE	Input	Output
SXK-A200Q-DR-1N1A		√	√				1	1
SXK-A200Q-CDNR-2N2A	√	√	√	√			2	2
SXK-A200Q-CDNPR-2N2A	√	√	√	√		√	2	2
SXK-A200Q-CDGR-2N2A	√	√	√		√		2	2
SXK-A200R-CDNR-2N2A	√	√	√	√			2	2
SXK-A200R-CDNPR-2N2A	√	√	√	√		√	2	2
SXK-A200R-CDGR-2N2A	√	√	√		√		2	2
Additional models and functions can be customized.								

Product Overview

The SXK-A200QR features an integrated design for efficient identification and stable, long-range reading of tag data. It incorporates proprietary technology, an embedded microsystem and an in-house high-efficiency signal and data processing algorithm. Its ASA housing resists weathering, yellowing, aging, fading and UV exposure. With an industrial IP65 protection rating, it is suitable for installation in harsh environments.

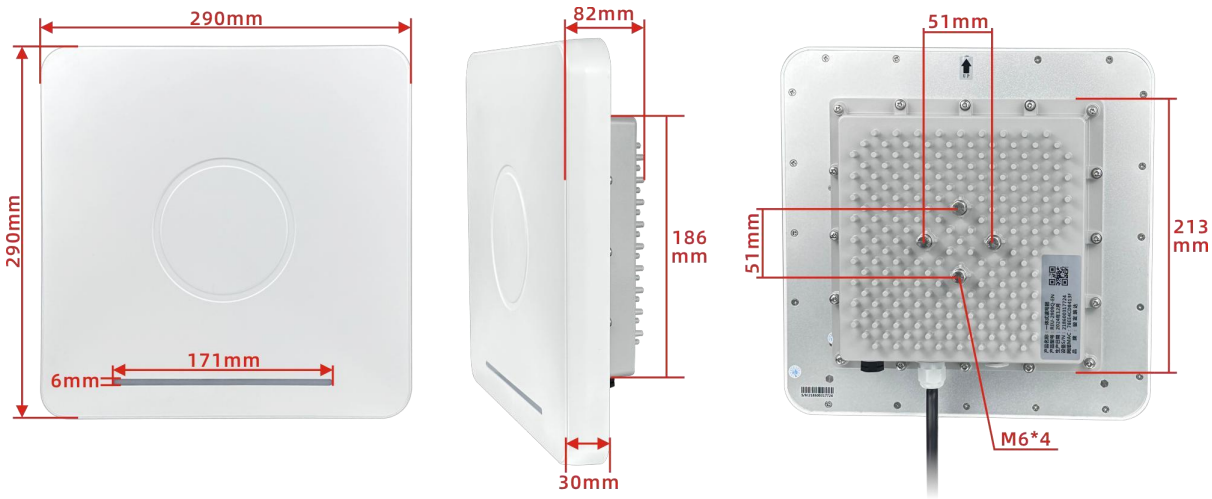
Built-in high-capacity FLASH memory can be configured to save backup data automatically, retain data during power loss and restore the operating state when power returns. Custom time-slot wake-up schedules support 24/7 operation. Multiple communication interfaces and easy installation make it suitable for intelligent vehicle identification, vehicle weighing, floor-level positioning, construction sites and tunnel operations.



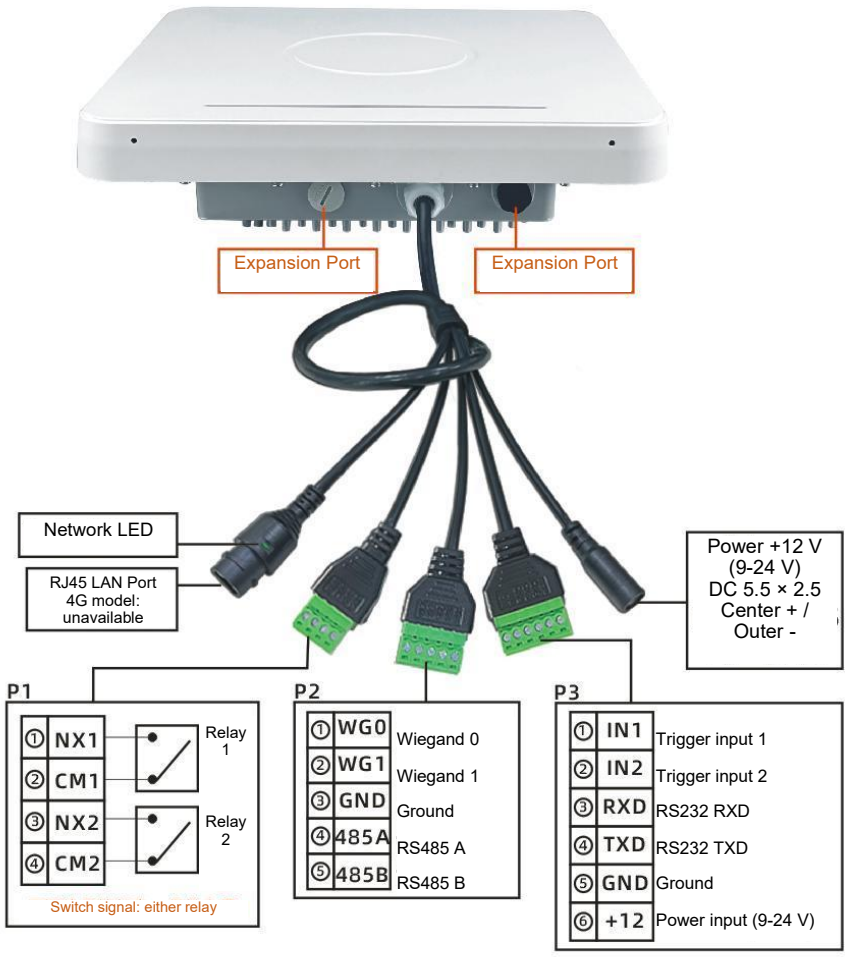
Product Features

✓ Supports ISO18000-6C or ISO18000-6B protocols
✓ ARM® Cortex®-M3 processor platform, operating at 72 MHz
✓ Built-in embedded microsystem
✓ Three operating modes: active, response and trigger
✓ High-capacity FLASH: optional automatic backups, data retention during power loss and operating-state restoration
✓ Two built-in relay outputs for flexible control of external audible and visual alarms and other devices
✓ Two to four optically isolated inputs; active low (four inputs available by customization)
✓ Custom blacklist and whitelist identification
✓ Custom time-slot wake-up schedules for 24/7 operation
✓ TCP/IP with selectable TCP server/client modes; HTTP and MQTT can be configured
✓ Multiple data interfaces: RS232, RS485, LAN and Wiegand
✓ Optional 4G communication
✓ RSSI tag feedback signal-strength reporting
✓ Optional Power over Ethernet (PoE)
✓ Hands-free detection without card swiping for convenient use
✓ Smooth, efficient passage of electric bicycles and motorcycles in access-control lanes
✓ Development support for multiple programming languages and demonstration software
✓ Custom exterior logo available

Product Dimensions



Product Description



Product Specifications

Performance	
Supported protocols	ISO18000-6C (EPC C1 GEN2) or ISO18000-6B
Operating frequency	902-928 MHz, 865-868 MHz (US, EU, China and fixed-frequency settings; freely configurable)
RF output power	1-32 dBm; R2000 version: 1-33 dBm (default: 30 dBm; software adjustable)
Read range	0-15 m; R2000 version: 0-30 m (depending on tags and environment)
Write range	0-50 cm (depending on tags and environment)
Identification rate	>30 tags/s; R2000 version: >200 tags/s (depending on tags and environment)
Interfaces	
RS232 interface	Baud rate: 115200 bps (default); options include 9600, 19200, 38400, 56000 and 57600 bps
RS485 interface	
I/O interface	2 relay outputs and 2 optically isolated inputs
Ethernet interface	10/100 Mbps auto-sensing; selectable TCP server/client modes; cross-network data transmission
Wiegand interface	Wiegand 26/34 standards
Power connector	Standard DC 5.5 × 2.5 mm jack + 3.5 mm pitch terminal block
PoE power supply	Input: 37-57 V DC; fully compliant with IEEE 802.3af/at (optional)
Power	
Operating voltage	Standard supply: 9-24 V DC; PoE supply: 37-57 V DC
Power consumption	12 W (max.)
Physical Specifications	
Dimensions	290 × 290 × 82 mm
Weight	2.2 kg
Housing material	ASA + aluminum
Protection rating	IEC IP65
Environmental Specifications	
Operating temperature	-20 to +70 °C
Operating humidity	-5% RH to 95% RH (non-condensing)
Storage humidity	-10% RH to 95% RH (non-condensing)

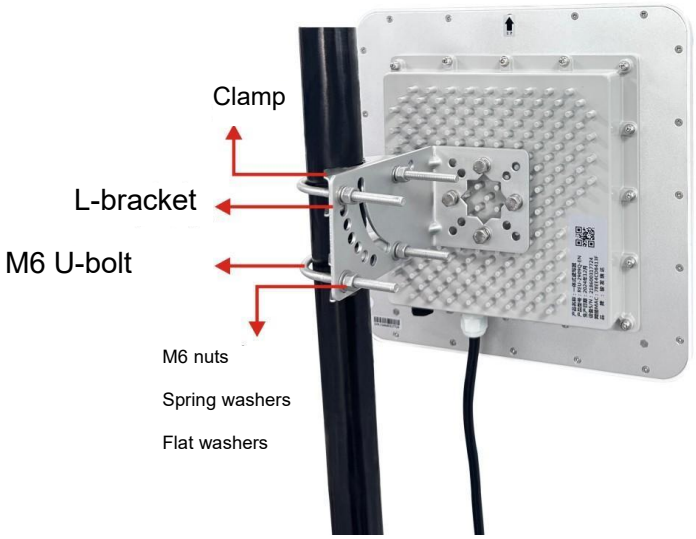
Packing List

Item	Specification	Qty	Unit
RFID reader	SXK-A200QR	1	pc
Power adapter	12 V DC	1	set
Mounting bracket kit	L-shaped	1	set

Installation Instructions

Installation with an L-shaped bracket

Step 1: Secure the L-shaped mounting bracket to the reader using M5 screws, flat washers and spring washers, as shown below.



Step 2: Secure the reader to the pole using M6 U-bolts, nuts, spring washers, flat washers and clamps, as shown above.

Product Use Precautions

1. Choose side I-type mounting or upright L-bracket mounting according to the actual installation environment.
2. Tag read/write range depends on antenna gain, the angle between the tag and antenna, the material of the tagged object and the surrounding environment. Select the best combination for actual site conditions.

Installation with a swivel bracket

Secure the swivel mounting base to the antenna using M6 nuts, flat washers and spring washers, as shown below.

