

AWR201 User Manual

Version: V1.01

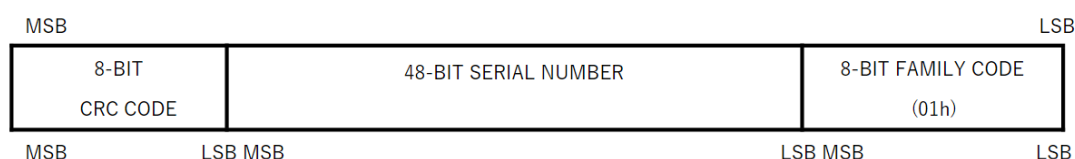


1.General Description

AWR201 can support 4 bytes ID and 7 bytes ID at the same time, the AWR201 support 3 format card types (ISO14443A, ISO14443B, ELID). Please refer to the following:

1.1 64-Bit Lasered ROM:

4 Bytes ID data type have a unique ROM code that is 64bits long. The first 8 bits are a 1-Wire family code. The next 48 bits are a unique serial number. The last 8 bits are a CRC of the first 56 bits. See below Figure for details.



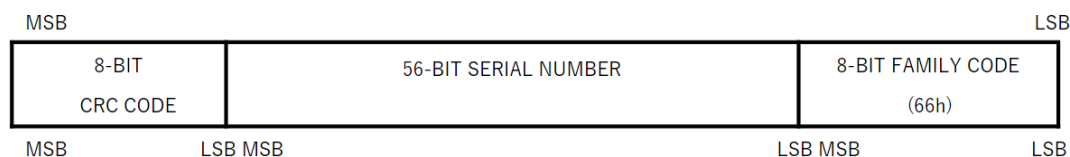
The 4 Bytes ID Type that using family code (0x01).

The length of ISO14443A serial number have 4 bytes that range from 00000000 to FFFFFFFF. the insufficient will make up for 0. For example: if the card number is 123456789, so the serial number is "075BCD150000".

The ELID card data include facility code and card number, the length of facility code is one byte, the length of card number is four bytes that range from 00000000 to FFFFFFFF. the insufficient will make up for 0. For example: if the facility code is 0x0B, the card number is 0007864739, so the serial number is "0B007801A300".

1.2 72-Bit Lasered ROM:

7 Bytes ID data type have a unique ROM code that is 72bits long. The first 8 bits are a 1-Wire family code. The next 56 bits are a unique serial number. The last 8 bits are a CRC of the first 64 bits. See below Figure for details.



The 7 Bytes ID Type that using family code (0x66).

The length of ISO14443A serial number have 7 bytes that range from 0000000000000000 to FFFFFFFFFFFFFFFF.

2.Parts List

Name	Picture	Dimensions	Weight
AWR201		41*41*11 mm	
RF Card		85.6*54*0.9 mm	

3. RFID Specification

NO	Type	Specification
1	Standards	Comply with ISO1443A, ISO1443B standard and ELID Proximity.
2	Frequency	13.56MHz 125KHz

4.Electronic Condition

NO	TYPE	SPECIFICATION	Unit
1	Operation Temperature	-20~+80	°C
2	Storage Temperature	-20~+85	°C

5.Light Indicator

AWR201 have one led that is two color lamp, red color is power led, blue color flash three times that express send data success.

6.Power Connection

VIN (PIN1)/GND (PIN2) are the power input pins. The input voltage range for this device is from 7V to 32V. The device is designed to be installed in vehicles that operate on 12V or 24V systems

without the need for external transformers.

7.Installation

AWR201 4Pin Output Interface:

AWR201	Pin Names	color	Description
4Pin 1wire Interface	VDD	RED	Power support 7V~32V.
	GND	BLACK	Ground
	1wire	WHITE	1-Wire data
	Buzzer	Yellow	Control build-in buzzer

Tracker 's output can connect with yellow cable of AWR201 directly that can control build-in buzzer of AWR201.

8. Supported RF Card

Item	Protocol	Card Type	Operation Distance
Supported RFID card	MIFARE	MIFARE Mini, MIFARE Ultralight, MIFARE- DESFire EV1, MIFARE Plus, MIFARE ONE(S50), MIFARE ONE(S70), MIFARE Pro(X)	30mm
	ELID	ELID Proximity Card	30mm