

AWR201 User Manual

Version 1.01



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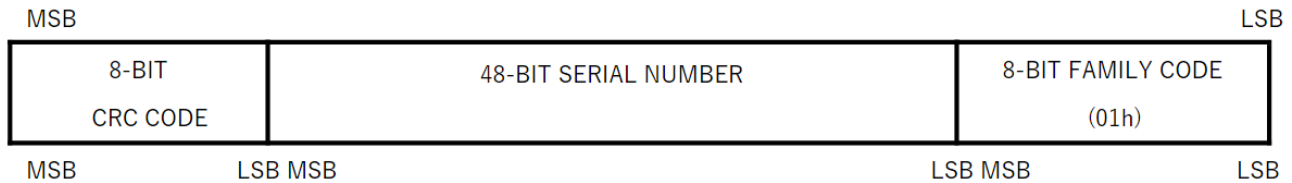
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AWR201 General Description

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

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.

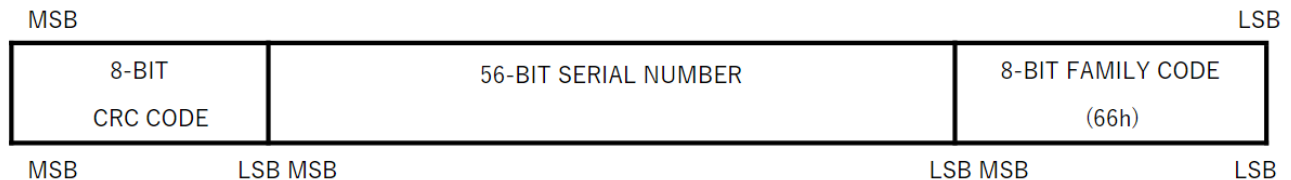


The length of ISO14443A serial number have 4 bytes that range from 00000000 to FFFFFFFF. the insufficient will make up for 0. For example: if the card number is 123456789, so the serial number is "075BCD150000".

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".

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 00000000000000 to FFFFFFFFFFFFFFFF.

AWR201 Technical Specifications

Parameter	Specification
Weight	68 g
Dimension	41x41x11 mm
Operating Voltage	7-32 V
Operating Temperature	-20°C ~ +80°C
Storage Temperature	-20°C ~ +85°C
Frequency	13.56Mhz / 125Khzp
LED	Red – Power ON, Blue – Flash 3 express send data
Wires	Red VDD – 7 - 32 V Black – Ground White – 1-wire Data Yellow – Buzzer

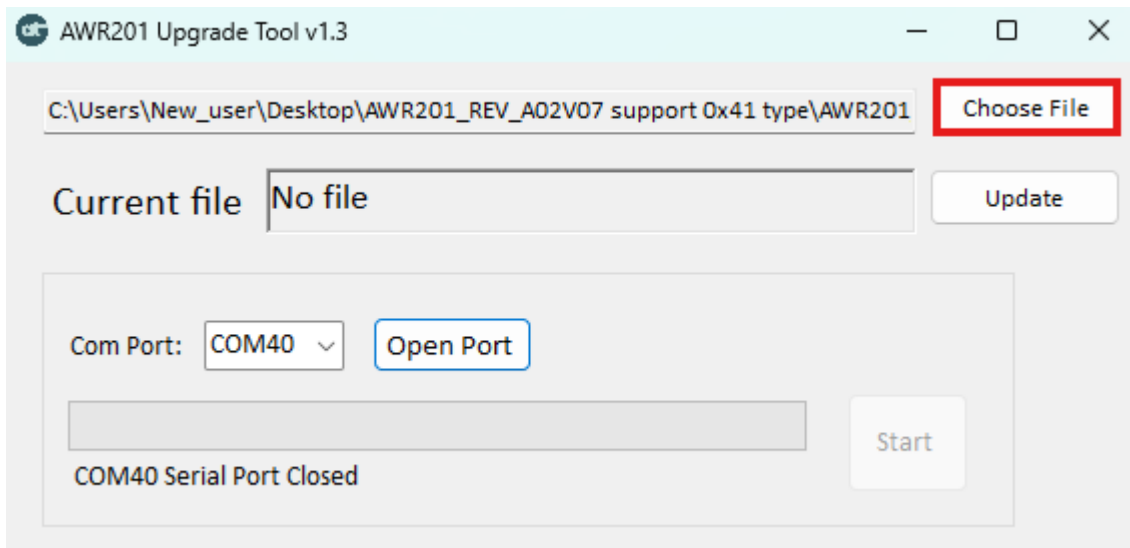
AWR201 Firmware Upgrade

Preparation:

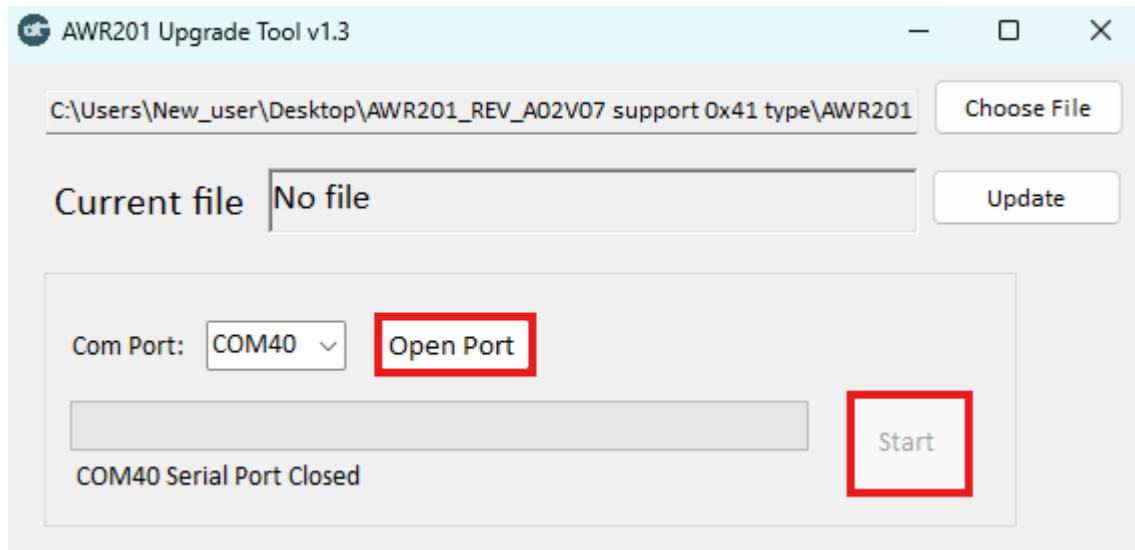
To update the AWR201 firmware, you will need a special tool and special software. Please contact support@iot-at.com

Upgrade Procedure

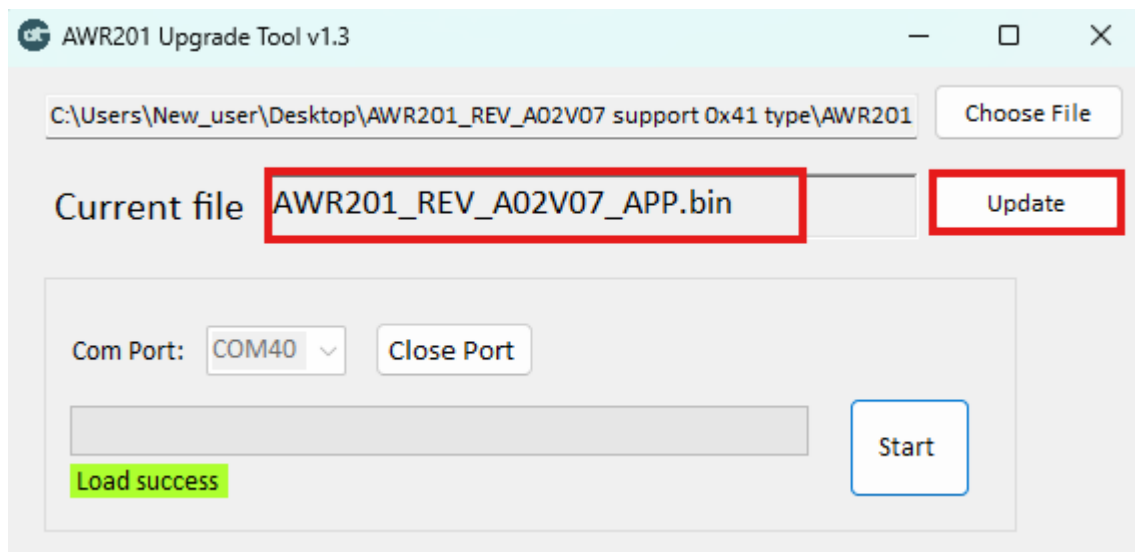
- 1.1 Connect the upgrade toolkit to PC.
- 1.2 Connect the wires one by one in the following order: Red > red, black > black, white > white (**white wire must be connected last**).
- 1.3 Run the upgrade tool on your PC, and press “choose file”.



1.4 Open the COM port and press Start.



1.5 File is successfully loaded, press Update (the tool will display which file is currently on the upgrade board).



1.6 All wires are connected and the file is uploaded. Place the RFID card on top of the RFID reader and press the button on the upgrade board.

1.7 Update is successful when the upgrade board beeps two times and the green LED flashes. The update has failed if the board beeps five times and the red LED lights up.

1.8 The upgrade is complete, disconnect the white wire first then black and red.