ASR6601

J-Llink Download User Guide

Version 1.0.1

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About This Document

This document provides a user guide for downloading the IoT LPWAN SoC chip ASR6601 via J-Link.

Intended Readers

This document is mainly for engineers who use this chip to develop their own platform and products, for instance:

- Hardware Development Engineer
- Software Engineer
- Technical Support Engineer

Included Chip Models

The product models corresponding to this document are as follows.

Model	Flash	SRAM	Processor	Package	Frequency
ASR6601SE	256 KB	64 KB	32-bit 48 MHz Arm China STAR-MC1	QFN68, 8*8 mm	150 ~ 960 MHz
ASR6601CB	128 KB	16 KB	32-bit 48 MHz Arm China STAR-MC1	QFN48, 6*6 mm	150 ~ 960 MHz
ASR6601SER	256 KB	64 KB	32-bit 48 MHz Arm China STAR-MC1	QFN68, 8*8 mm	150 ~ 960 MHz
ASR6601CBR	128 KB	16 KB	32-bit 48 MHz Arm China STAR-MC1	QFN48, 6*6 mm	150 ~ 960 MHz

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Trademark Statement

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Revision History

Date	Version	Release Notes
2022.11	V1.0.0	First Release.
2024.03	V1.0.1	Updated Chapter 2.

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1. J-Link Support Package Installation

ASR6601 supports standard SWD interface and can be downloaded via J-Link. Before downloading, add ASR6601 to the device list of J-Link. Copy the ASR directory in the tools/JLink/Devices directory of the SDK to the Devices directory of the J-Link installation directory, and add the device description of the ASR6601 at the end of the tools/JLink/JLinkDevices.xml file to the JLinkDevices.xml file in the J-Link directory.

Figure 1-1 JLinkDevices.xml Modification

2.   J-Link Download

After installing the J-Link support package you can use J-Link to download. Connect the SWD and SWC pins of ASR6601 to the SWDIO and SWCLK pins of J-Link respectively, and connect the GND pins of ASR6601 to the GND pins of J-Link.

Please note that connecting the RESET pin of J-LINK to the RESET pin of ASR6601 is prohibited, as it may lead to flash erasure.
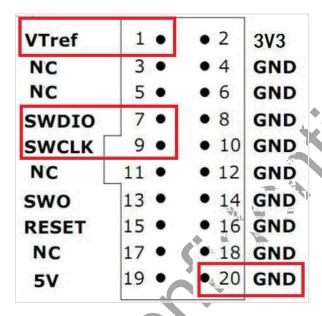
VTref	1 ●	● 2	3V3
NC	3 ●	● 4	GND
NC	5 ●	● 6	GND
SWDIO	7 ●	● 8	GND
SWCLK	9 ●	● 10	GND
NC	11 ●	● 12	GND
SWO	13 ●	● 14	GND
RESET	15 ●	● 16	GND
NC	17 ●	● 18	GND
5V	19 ●	● 20	GND

Figure 2-1 J-Link Pin Diagram

Open the ASR6601 JFlash project in the tool/JLink/JFlash directory of the SDK using JFlash and start downloading.