# RELEASE NOTES

## JN-SW-4007-Flash-Programmer

## Related Products and Versions

This document relates to:

- **JN-SW-4007 Flash Programmer v1.8.9**

# CONTENTS

# SOFTWARE COMPONENTS

The following components are included in the in the ZIP file:

- JN51xx Flash Programmer v1.8.9
- FTDI Drivers CDM 2.06.00 WHQL Certified

The MD5 checksum for the ZIP file is: **a13bde70558b1c76bcdcfcd36fb4562e**.

# SUPPORTED PRODUCTS

The JN51xx Flash Programmer supports the following products.

| Product Type | Part Number | Version | Supported Chips | Supported Protocols |
|---|---|---|---|---|
| Evaluation Kit | JN5121-EK000 | - | JN5121 | 802.15.4 |
| | JN5121-EK010 | - | JN5121 | 802.15.4, ZigBee |
| | JN5139-EK000 | - | JN5139 | 802.15.4, JenNet |
| | JN5139-EK010 | - | JN5139 | 802.15.4, JenNet, ZigBee |
| | JN5148-EK010 | - | JN5148 | 802.15.4, ZigBee PRO |
| | JN516x-EK040,<br>JN516x-EK001 | - | JN5168,JN5164,JN5161 | 802.15.4, JenNet-IP,ZigBee PRO |
| SDK Libraries | JN-SW-4030 | v1.6 | JN5139, JN5121 | 802.15.4, JenNet, ZigBee |
| | JN-SW-4040 | v1.1 | JN5148 | 802.15.4, ZigBee PRO |
| | JN-SW-4049 | v2.0 | JN5142-001 | 802.15.4, RF4CE |
| | JN-SW-4063 | v741 | JN5168,JN5164,JN5161 | 802.15.4 |
| | JN-SW-4065 | v745 | JN5168,JN5164 | 802.15.4, JenNet-IP |
| | JN-SW-4066 | v738 | JN5168,JN5164 | 802.15.4, ZigBee PRO |
| SDK Toolchain | JN-SW-4031 | v1.1 | JN5139, JN5121 | - |
| | JN-SW-4041 | v1.1 | JN5148 | - |

# RELEASE SUMMARY

The JN51xx Flash Programmer installer contains a standalone installation of the Flash programmer for NXP’s JN51xx range of microcontrollers. This installer provides an update to the version included in the SDK Toolchain (JN-SW-4031) and JN5148 SDK Toolchain (JN-SW-4041). The update adds support for the JN516x device family

# INSTALLATION

The JN51xx Flash Programmer is provided as a ZIP file that should be extracted into the appropriate directory, as described below:

**1)** Extract the ZIP file to the **<JN51xx_SDK_BASE>** directory.

By default, **JN51xx_SDK_BASE** is **C:\Jennic**.

The Flash programmer will be extracted to **Tools/flashprogrammer** and the FTDI device drivers to **Tools/Drivers/FTDI_Drivers/CDM20814_WHQL_Certified**.

For JN-SW-4031 SDK Toolchain installations, these directories should then be respectively moved to **C:\Jennic\cygwin\jennic\flashprogrammer** and **C:\Jennic\drivers\FTDI_drivers\**.

**2)** If support for a USB dongle based on the Reference Design (JN-RD-6023) is required, update the FTDI drivers as follows:

Either

Run the installation executable available at:

**http://www.ftdichip.com/Drivers/CDM/CDM20814_Setup.exe**

or

Select **Universal Serial Bus Controllers>USB Serial Converter** in the Windows Device Manager, right-click and select **Update driver**, then either update from the location

**<JENNIC_SDK_BASE>/Tools/Drivers/FTDI_Drivers/CDM20814_WHQL_Certified**

or from the Windows update site.

# RELEASE DETAILS

## 1. Flash Programmer

### 1.1 Bug fixes and Enhancements

| ID | Description |
|---|---|
| lpsw3665 | Flash CLI MAC addresses programming for JN516x devices added |

### 1.2 Known Issues

The following known issues remain in this release

| ID | Severity | Description |
|---|---|---|
| lpsw2116 | Major | **Issue:** FTDI Driver may be detected as Broadcom Bluetooth Adapter<br>**Workaround:** update the Broadcom Bluetooth device manually via Device Manager |

| | | |
|---|---|---|
| lpsw3696 | Major | **Issue:** FlashCLI does not support automatic program and reset on DK4 and USB dongle hardware<br>**Workaround:** None |
| lpsw3657 | Minor | **Issue:** PDM erase may take > 2minutes and fail<br>**Workaround:** click 'Refresh' next to MAC address before calling PDM erase |
| lpsw2942 | Minor | **Issue:** Flash programmer fails to start if an FTDI USB cable has not been connected to PC<br>**Workaround:** Connect FTDI USB cable and install driver prior to starting flash programmer |
| lpsw2943 | Minor | **Issue:** Error generated on closing flash programmer if FTDI USB cable is unplugged before flash programmer is closed.<br>**Workaround:** Close flash programmer prior to removing FTDI USB cable |
| lpsw3464 | Minor | **Issue:** Jennic Icon may be displayed by flash programmer >1.8.6<br>**Workaround:** None |

## 1.3 Support Collateral

JN51xx Flash Programmer User Guide (JN-UG-3007)

# RELEASE HISTORY

## Release V1.6.8

### Bug Fixes

| ID | Description |
|---|---|
| CRO313 | **msvcp71.dll** added to application directory, as required by some systems. |

## Release V1.6.7

### New/Supported Features

| ID | Description |
|---|---|
| TR262 | Flash programmer support for USB dongles via GUI |
| TR182 | Flash Program option to control program and reset lines via FTDI FT232R DIO |

# Release V1.7.0

## New Features and Enhancements

| ID | Description |
|---|---|
| CRO367 | Adjust layout to improve usability on smaller screens, add option to refresh COM port list |
| CRO157 | MAC address programming options reworded |
| CRO263 | USB dongle programming support added to Command Line version of Flash programmer |

## Bug Fixes

| ID | Description |
|---|---|
| CRO366 | COM port not listed if another application (e.g. terminal) has a different COM port open via an FTDI driver |

# Release V1.7.2

## New Features and Enhancements

FTDI drivers updated for windows 7

# Release V1.7.8

## New Features and Enhancements

JN5142-001 device support added

# Release V1.7.9

## New Features and Enhancements

JN5142-J01 device support added

# Release V1.8.6

# 2. Flash Programmer

## 2.1 Bug fixes and Enhancements

JN516x EEPROM and PDM data erase option added

| ID | Description |
|---|---|
| lpsw3418 | Option to program 2nd MAC address in index sector on 6x – note one time programmable operation |
| lpsw2770 | Flash programmer does not show MAC address programming options if not valid on 6x |
| lpsw1567 | Command Line version (FlashCLI) gives warning message “Debug: src/helpers.cpp(140): 'CreateActCtx' failed with error 0x00000008” |

## 2.2 Known Issue

The following known issue remains in this release

| ID | Severity | Description |
|---|---|---|
| lpsw2116 | Major | **Issue:** FTDI Driver may be detected as Broadcom Bluetooth Adapter<br>**Workaround:** update the Broadcom Bluetooth device manually via Device Manager |
| lpsw2942 | Minor | **Issue:** Flash programmer fails to start if an FTDI USB cable has not been connected to PC<br>**Workaround:** Connect FTDI USB cable and install driver prior to starting flash programmer |
| lpsw2943 | Minor | **Issue:** Error generated on closing flash programmer if FTDI USB cable is unplugged before flash programmer is closed.<br>**Workaround:** Close flash programmer prior to removing FTDI USB cable |
| lpsw3464 | Minor | **Issue:** Jennic Icon may be displayed by flash programmer >1.8.6<br>**Workaround:** None |

# Release V1.8.8

# 3. Flash Programmer

JN516x EEPROM and PDM data erase option added

| ID | Description |
|---|---|
| lpsw3472 | Programming MAC address from list in file supported on JN516x via FlashGUI |
| lpsw3602 | FlashCLI: programming fails for binary size equals integer multiple of chunk size |