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Digi ConnectCore Smart IOmux Release Notes
Digi ConnectCore Smart IOmux
Version 2.6.0 (May 7, 2026)

INTRODUCTION

These are the release notes for Digi ConnectCore Smart IOmux, the tool that simplifies the pin configuration and resolution of Digi International Inc. ConnectCore modules.

SUPPORTED PRODUCTS

Operating systems

- Microsoft Windows 7 or later (64-bit versions)
- Linux with Gnome or KDE (64-bit versions)

ConnectCore platforms

- Digi ConnectCore 6UL
- Digi ConnectCore 8X
- Digi ConnectCore 8M Mini
- Digi ConnectCore 8M Nano
- Digi ConnectCore 91
- Digi ConnectCore 93
- Digi ConnectCore 95
- Digi ConnectCore 95 SMARC
- Digi ConnectCore MP133
- Digi ConnectCore MP157
- Digi ConnectCore MP235
- Digi ConnectCore MP255
- Digi ConnectCore MP257

KNOWN ISSUES

1. The keyboard (KPP) component does not allow line selection. All lines are enabled by default.
2. Designs using a CCMP13 or CCMP15 as base platform and compatible with CC6UL platforms allow to add two I2C interfaces when only one is compatible: I2C3 for the CCMP13 and I2C2 for the CCMP15.
3. Support for ConnectCore 95 is based on the new SOM spin (v2). Early development kits were

built using the ConnectCore 95 v1 SOM, so some interfaces and pads may not match those shown in the design.

UPDATE CONSIDERATIONS

N/A

UPDATE BEST PRACTICES

There are two ways of getting this new version:

1. If you do not have Smart IOmux installed on your computer, download and install the tool from the Digi website (https://www.digi.com/products/embedded-systems/system-on-modules/connectcore-for-i-mx6ul).
2. If you already have Smart IOmux installed on your computer, open the tool and wait until it notifies you about the new update. Then, follow the process to install the new version. You can manually check for updates at any time from *Help > Check for updates*.

You should always run the latest version of Smart IOmux.

TECHNICAL SUPPORT

Get the help you need via our Technical Support team and online resources. Digi offers multiple support levels and professional services to meet your needs. All Digi customers have access to product documentation. firmware, drivers, knowledge base and peer-to-peer support forums. Visit us at https://www.digi.com/support to find out more.

CHANGE LOG

VERSION 2.6.0 (May 7, 2026)

This is a mandatory release.

NEW FEATURES

1. Added support for SMARC layout designs [IOMUX-431]
2. Added support for ConnectCore 95 SMARC platform [IOMUX-429, IOMUX-428].
3. Added support for SMARC v2.2 standard compatible designs. [IOMUX-438]

ENHANCEMENTS

1. Display platforms organized in families while creating a new design. [IOMUX-430]
2. Display the SMT pad associated to each IOMux line in the configuration view, the IOMuxes table and the graphic view. Include it also in the exported design CSV file. [IOMUX-435]
3. Unify IOMux lines and reserved pads naming and labels [IOMUX-436]
4. Add default compatibility support for some platforms [IOMUX-439]
5. Add pad label support to display extended pad information in the pad layout. Only for SMARC platforms now. [IOMUX-442]

SECURITY FIXES

1. N/A

BUG FIXES

1. Add missing resources for ConnectCore 95 platform [IOMUX-433]
2. Several bug fixing and improvements in the design resolution process with compatible platforms.

VERSION 2.5.0 (December 3, 2025)

This is a mandatory release.

NEW FEATURES

3. Added support for ConnectCore MP235, ConnectCore MP257 and ConnectCore 95 platforms [IOMUX-416, IOMUX-421].

ENHANCEMENTS

4. Improved GPIO names and sorting in the component resource selection box. [IOMUX-426]
5. Added support for direct CLK source for Ethernet and PCI components in the ConnectCore MP255 platform. [IOMUX-411]

SECURITY FIXES

6. N/A

BUG FIXES

7. Allowed ConnectCore MP13 platform designs to have more than one Ethernet MDIO component. [IOMUX-412, IOMUX-427]
8. Fixed an issue causing CCMP platforms to display wrong alternate function (AF) information after changing assigned line pad. [IOMUX-410]
9. Reserved the pad used by the Wi-Fi external CLK oscillator in the ConnectCore MP1X Wi-Fi variants: CCMP13 – PI1, CCMP15 – PI8 [IOMUX-414]

VERSION 2.4.0 (February 3, 2025)

This is a mandatory release.

NEW FEATURES

1. N/A

ENHANCEMENTS

1. Added kernel version 6.6 to ConnectCore 6UL, ConnectCore 8X, ConnectCore 93, ConnectCore MP255 and ConnectCore 91 platforms. [IOMUX-404, IOMUX-405]

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue with the pad names in the device tree generation for the ConnectCore 91

platform. [IOMUX-401]

2. Fixed an issue with the Z pins in the device tree generation for CCMP platforms. [IOMUX-402]
3. Fixed an issue with UART components in the device tree generation for CCMP platforms. [IOMUX-403]
4. Added missing setting to ethernet components to generate output clock signal in RGMII mode for CCMP platforms. [IOMUX-406]

VERSION 2.3.0 (August 7, 2024)

This is a mandatory release.

NEW FEATURES

1. Added support for ConnectCore 91 platform (beta). [IOMUX-393]

ENHANCEMENTS

1. Added support to change design name from the design information tab. [IOMUX-363]
2. Added support to change design platform variant from the design information tab. [IOMUX-366]
3. CC93 platform updates [IOMUX-366]:
    - Removed all MCA components.
    - Added two new JTAG components.
    - Updated pad layout definition to reflect changes in components
4. CCMP25 platform updates [IOMUX-374]:
    - Updated all components device tree hints to their final version

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed CVS design export feature for CCMP platforms. [IOMUX-394]
2. Fixed an issue causing device tree generation to fail in CCMP platforms if there were more than 2 pin groups in a component. [IOMUX-346]
3. Fixed assigned pads of the MIPI-DSI components in CCMP157 platform. [IOMUX-395]
4. Other minor fixes and improvements.

VERSION 2.2.0 (June 6, 2024)

This is a mandatory release.

NEW FEATURES

1. Added support for ConnectCore MP255 platform (beta). [IOMUX-361, IOMUX-362, IOMUX-373]
2. Added support for ‘ring’ pads based design layout. [IOMUX-369]
3. Added support for Linux 64-bit distributions.

ENHANCEMENTS

1. Improved platform compatibility support [IOMUX-352, IOMUX-353, IOMUX-354, IOMUX-355, IOMUX-356, IOMUX-357, IOMUX-358, IOMUX-359 IOMUX-360]:
    - Removed compatibility support based on fixed layouts.
    - Created a new compatibility mechanism based on required settings, IOMuxes and reserved pads.
    - Added support to change the base platform of a compatible design.
    - Improved the way available components are displayed while adding components to a compatibility enabled design.
2. Added Kernel version 5.15 to ConnectCore CC8X platform. [IOMUX-370]
3. Added Kernel version 6.1 to ConnectCore CC93 platform. [IOMUX-371]
4. Added an option to lock/unlock all the IOMuxes of a component with a single click from the pads table.
5. Component resources are now sorted alphabetically.
6. Reworked Ethernet component in all platforms adjusting supported modes and moving optional lines to settings.
7. Disabled all MCA components of the CC93 platform.
8. Unified LVDS and MIPI-DSI components in CC8X and CC93 platforms.
9. Removed several not used/visible components and resources of CC8X platform.
10. Adjusted the following components to fit the new compatibility mechanism:
    - USDHC/SDMMC
    - SAI
    - QuadSPI
    - EIM
    - SPDIF
    - LCDIF
    - MIPI-CSI
    - USB

SECURITY FIXES

1. N/A

BUG FIXES

1. Removed 'reserved' tag of CCMP13 'A_11' pad so it can be used in designs.
2. Fixed an issue drawing the module in the Graphic view when the platform does not support castellated pads design layout.
3. Fixed an issue calculating the free resources in compatibility enabled designs while adding new platforms.
4. Fixed an issue while reading the value of an IOMux configured as GPIO causing this value not to be saved in CCMP platforms.
5. Minor assigned pads/functions fixes on component resources IOMuxes.
6. Fixed some errors while loading designs created with older versions.
7. Other minor fixes and improvements.

VERSION 2.1.0 (May 3, 2023)

This is a mandatory release.

NEW FEATURES

1. Added support for ConnectCore 93 platform (beta). [IOMUX-315, IOMUX-334]
2. Added support to change the base platform of a compatible design. [IOMUX-340]

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue to only reset IOmux values when changing their associated pad. [IOMUX-312]
2. Fixed the resolution algorithm to properly exclude non-compatible IOmux configurations of compatible designs. [IOMUX-340]
3. Fixed issue that was displaying checkboxes for fixed pads in the configuration view. [IOMUX-335]

VERSION 2.0.1 (March 24, 2023)

This is a mandatory release.

NEW FEATURES

1. Added support for ConnectCore MP133 platform (beta). [IOMUX-243, IOMUX-281, IOMUX-316]
2. Added support for kernel 5.15 on ConnectCore 8M Mini, ConnectCore 8M Nano and ConnectCore 6UL platforms.[IOMUX-318]
3. Added conflicts detector dialog to identify unsolvable designs when loading them into the tool. This dialog shows conflicts between pads and resources of components and allows to attempt an automatic fix when possible. [IOMUX-325]

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue with the Ethernet RMII mode in the CC8MM platform. [IOMUX-314]
2. Fixed some pads that changed in v2 of the CC8MM and CC8MN SOMs. [IOMUX-260]
3. Fixed handling of collapsible panes in the component configuration view. [IOMUX-332]
4. Fixed issue with ADC component not adding the pinctrl section to the device tree in ConnectCore 8X and ConnectCore 6UL platforms. [IOMUX-330]
5. Added minor updates to device tree hints and components in ConnectCore MP157 platform. Updated the DVK template to account for these changes. [IOMUX-321]

VERSION 2.0.0 (October 20, 2022)

This is a mandatory release.

NEW FEATURES

1. Added support for ConnectCore MP157 platform (beta). [IOMUX-237, IOMUX-238, IOMUX-239, IOMUX-240, IOMUX-275, IOMUX-277, IOMUX-280]
2. Added a new way to create designs compatible with other ConnectCore platforms, organized in two different families: CC6UL/CCMP157 and CC8X/CC8MM/CC8MN. This replaces the existing compatible pinout functionality. [IOMUX-262, IOMUX-264, IOMUX-265, IOMUX-267, IOMUX-274, IOMUX-278, IOMUX-279]
3. Added a new graphic view to quickly visualize free, used and reserved pads of the module. [IOMUX-241, IOMUX-244, IOMUX-245, IOMUX-246, IOMUX-247, IOMUX-248, IOMUX-255, IOMUX-256, IOMUX-257, IOMUX-261, IOMUX-263]
4. Added new MCA components to several platforms (LED, tamper and keypad). [IOMUX-290, IOMUX-291, IOMUX-292]
5. Added a new home view with information about the platform and the design itself. [IOMUX-301]

ENHANCEMENTS

1. Changed the style, icons and fonts of the application. [IOMUX-272, IOMUX-273, IOMUX-294, IOMUX-301]
2. Improved the resolution algorithm with new prunes in the process. [IOMUX-299]
3. Added missing pads to the USB 3.0 component of the ConnectCore 8X platform. [IOMUX-229]

SECURITY FIXES

1. N/A

BUG FIXES

1. Removed pads T_29 and U_29 from castellated designs in the ConnectCore 8M Mini and 8M Nano platforms. [IOMUX-253]
2. Removed MCA pads 11, 12 and 18 as ADC capable in the ConnectCore 8X, 8M Mini and 8M Nano platforms. [CC8M-79]
3. Fixed an issue with the --prefix argument in the CLI installer. [IOMUX-260]

VERSION 1.9.2 (February 24, 2022)

This is a mandatory release.

NEW FEATURES

1. N/A

ENHANCEMENTS

1. Improved the resolution algorithm with new prunes in the process [IOMUX-234].

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue that was blocking a few pads of a design limiting the total number of free pads [IOMUX-235].

VERSION 1.9.1 (December 14, 2021)

This is a mandatory release.

NEW FEATURES

1. N/A

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. Updated log4j library to fix CVE-2021-44228 vulnerability

BUG FIXES

1. N/A

VERSION 1.9.0 (March 25, 2021)

This is a recommended release.

NEW FEATURES

1. Added support for ConnectCore 8M Mini platform (beta). [IOMUX-222]
2. Included ConnectCore 8M Mini platform in the SMT Plus 40x45 layout. [IOMUX-223]
3. Added support for CC8M Nano 0x02 (No WiFi/Bluetooth) variant. [IOMUX-224]

ENHANCEMENTS

1. Added muxes corresponding to pads K_29 and AG_25 to the CC8MN platform. [IOMUX-228]

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue with a duplicated pad in the CC6UL SBC Pro templates. [DEL-7390]
2. Fixed an issue with default template components when switching the platform or removing the compatibility of a cross-platform design. [IOMUX-227]

VERSION 1.8.2 (December 23, 2020)

This is a recommended release.

NEW FEATURES

1. N/A

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed some issues in the CC8X and CC8MN templates [IOMUX-220].

VERSION 1.8.1 (November 27, 2020)

This is a recommended release.

NEW FEATURES

1. Added the possibility to cancel the load of designs that have compatibility issues.

ENHANCEMENTS

1. Added some missing resources and fixed some issues related to cross-platform projects [IOMUX-211].
2. Added LPSPI1 resource to CC8X platform and kernel 5.4 [IOMUX-209].

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed the electrical value documentation of some CC8X pads [IOMUX-212].
2. Updated the documentation of SPI component for CC8X and CC8MN platforms to remove the chip select note [IOMUX-214].
3. Removed the warning that appears for an invalid electrical value if that value is the default one [IOMUX-208].

VERSION 1.8.0 (July 21, 2020)

This is a recommended release.

NEW FEATURES

1. Added support for cross-platform designs. [IOMUX-142, IOMUX-177, IOMUX-178]
2. Added a search box in the components table view. [IOMUX-67]
3. Added support for kernel version 5.4. [IOMUX-201]

ENHANCEMENTS

1. Added MIPI DSI component to the CC8X platform. [IOMUX-191]

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed a couple of issues during the “Save as” process of a design.

VERSION 1.7.0 (February 5, 2020)

This is a recommended release.

NEW FEATURES

1. Added support for ConnectCore 8M Nano platform (beta). [IOMUX-169]

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed some backward compatibility issues. [IOMUX-168, IOMUX-167, IOMUX-165, IOMUX-166]

VERSION 1.6.0 (October 30, 2019)

NEW FEATURES

1. Added support for multiple kernel versions. [IOMUX-160]

ENHANCEMENTS

1. Updated several components and their device trees.
2. Added a mechanism to warn the user about the required device tree customizations. [IOMUX-140]

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed some backward compatibility issues. [IOMUX-117, IOMUX-134]

VERSION 1.5.0 (May 31, 2019)

NEW FEATURES

1. N/A

ENHANCEMENTS

1. Added some missing device trees and default values of the CC8X and CC6UL platform.
2. Added new components for the CC8X platform and CC6UL.

SECURITY FIXES

1. N/A

BUG FIXES

1. N/A

VERSION 1.4.0 (December 7, 2018)

NEW FEATURES

1. Display the components' reserved pads in addition to the IOmuxes.

ENHANCEMENTS

1. Added some missing device trees and default values of the CC8X platform.

SECURITY FIXES

1. N/A

BUG FIXES

1. N/A

VERSION 1.3.0 (September 10, 2018)

NEW FEATURES

1. Added support for ConnectCore 8X platform (beta).

ENHANCEMENTS

1. N/A

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed an issue when loading old designs that are not compatible with the latest versions of the tool.

VERSION 1.2.0 (July 7, 2018)

NEW FEATURES

1. Device tree.
   Digi ConnectCore Smart IOmux is now able to export the complete device tree of a design. This can be done from the Export option of the toolbar and the File > Export > Export Device tree menu entry.

   Device tree hints tab has been renamed to Device tree. List of components within this tab are now hanging from a root element that represents the design. If you click this element, the device tree view displays the complete device tree of the design. If you click any other component, the view displays just the device tree block associated to that component.
2. Electrical configuration.
   Electrical configuration of IOmuxes can be performed in a new dialog. It contains detailed information about the value of each bit that composes the configuration register of the IOmux.

   This configuration dialog can be accessed from each IOmux configuration panel.
3. Provide feedback.
   This version of the application includes the possibility to provide us with your feedback about the application itself through the Provide feedback dialog. It can be accessed directly from the toolbar or from the Help > Provide feedback menu entry.
4. Change log.
   Added a Change log dialog that lists all the Digi ConnectCore Smart IOmux releases with the

new features, changes and fixes they introduce. This dialog is displayed automatically whenever the application is installed from scratch or it has been updated to a new version. It is also possible to open the change log dialog from the Help > Change log menu entry.

ENHANCEMENTS

1. MX6UL_PAD_NAND_DQS pad (M_2) of the CC6UL platform is no longer locked.

SECURITY FIXES

1. N/A

BUG FIXES

1. Castellated pad names are now displayed correctly in the Table view of the design.

VERSION 1.1.1 (May 29, 2018)

NEW FEATURES

1. N/A

ENHANCEMENTS

1. Reordered swapped USB indexes.
2. Removed GPIO5_IO03 resource since it is not routed in the SOM.

SECURITY FIXES

1. N/A

BUG FIXES

1. Fixed mismatched UART labels.
2. Fixed wrong pad for Ethernet reset (ETH1 RST) when using the CC6ULSBC PRO template.

VERSION 1.0.0 (August 8, 2017)

First release of Digi ConnectCore Smart IOmux.