

Product Change Notification		Date
Product		February 27, 2024
Digi Embedded Yocto Release 4.0-r5 (dey-4.0-r5)		

Reason for Change

☐ Technical Requirement	☐ Product Transition
☐ Customer Requirement	☐ Product Discontinuation
☐ Quality Improvement	☒ Product Enhancement
	☐ Other

Description of Change	Digi Embedded Yocto version 4.0-r5 is based on the Yocto Project® release 4.0 LTS “kirkstone” and provides feature enhancements, bug fixes and Embedded Documentation Portal updates. Platform Support: CC8M Nano/Mini, CC8X, CC6UL, CC6+, CC6/6N, CCMP13/15, CC93 <u>Release changelog</u> 4.0-r5 • Added support for Light and Versatile Graphics Library (LVGL) • Added support to update bootloader using software update packages (SWU) • ST-based platforms ○ TrustFence ▪ Secure boot ▪ Added support to boot signed FIT images (kernel + device tree + U-Boot boot script) ▪ Secure console ▪ U-Boot environment encryption ▪ Partition encryption ▪ Secure firmware update ▪ Summary of TrustFence keys / how to revoke ○ Added support to EGLFS backend for ConnectCore MP15 platform • NXP-based platforms ○ Updated BSP for ConnectCore 93 ▪ U-Boot v2023.04 (based on tag lf-6.1.55-2.2.0 by NXP) ▪ Linux kernel v6.1.55 (based on tag lf-6.1.55-2.2.0 by NXP) ○ Middleware updates from Yocto 4.2 for ConnectCore 93 ○ IMPORTANT: Moved location of U-Boot environment for ConnectCore 93 to support redundant bootloader. Updating to the new U-Boot will reset the environment to default values. ○ TrustFence
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	▪ Added preliminary TrustFence support for ConnectCore 93 • Added overlay to enable Cortex-M coprocessor • Updated Python XBee library • Boot count support disabled by default • Digi ConnectCore Cloud Services ○ Added feature to update bootloader remotely using software update packages (SWU) ○ Data backlog support to locally store samples when it is not possible to upload them ○ CCCS API to set the maintenance state of devices ○ CCCS API to upload binary data points ○ Report to Digi Remote Manager when a device is using a Wi-Fi connection ○ Improved firmware download speed ○ Configuration file: ▪ Use default values if configuration file is not provided ▪ Allow to disable firmware update service ○ Updated Quick Setup mobile app ▪ UX improvements ▪ Added troubleshooting section in documentation • General bug fixing and improvements
Affected Part Numbers (Supported Platforms)	<u>ConnectCore 93</u> ConnectCore 93 System-on-Module (SOM) • CC-WMX-YC7D-KN • CC-MX-YC7D-ZN ConnectCore 93 Development Kit (DVK) • CC-WMX93-KIT <u>ConnectCore MP13</u> ConnectCore MP13 System-on-Module (SOM) • CC-WST-DX58-NK • CC-ST-DX58-ZK ConnectCore MP13 Development Kit (DVK) • CC-WMP133-KIT <u>ConnectCore MP15</u> ConnectCore MP15 System-on-Module (SOM) • CC-WST-DW69-NM • CC-ST-DW69-ZM ConnectCore MP15 Development Kit (DVK) • CC-WMP157-KIT

ConnectCore 8M Mini

ConnectCore 8M Mini System-on-Module (SOM)

- CC-WMX-ET8D-NN
- CC-WMX-ET7D-NN
- CC-MX-ET8D-ZN
- CC-MX-ET7D-ZN

ConnectCore 8M Mini Development Kit (DVK)

- CC-WMX8MM-KIT

ConnectCore 8M Nano

ConnectCore 8M Nano System-on-Module (SOM)

- CC-WMX-FS7D-NN
- CC-WMX-FR6D-NN
- CC-MX-FS7D-ZN
- CC-MX-FR6D-ZN

ConnectCore 8M Nano Development Kit (DVK)

- CC-WMX8MN-KIT

ConnectCore 8X

ConnectCore 8X System-on-Module (SOM)

- CC-WMX-JM8E-NN
- CC-MX-JM8D-ZN
- CC-MX-JM7D-ZN
- CC-WMX-JM7D-NN
- CC-MX-JQ6D-ZN
- CC-MX-JQ7D-ZN
- CC-WMX-JQ7D-ZN
- CC-WMX-JMFP-NN

ConnectCore 8X SBC Pro

- CC-WMX8-PRO

ConnectCore 6UL

ConnectCore 6UL System-on-Module (SOM)

- CC-WMX-JN7A-NE
- CC-WMX-JN69-NN
- CC-WMX-JN59-NN
- CC-WMX-JN58-NE
- CC-MX-JN7A-Z1
- CC-MX-JN69-ZN
- CC-MX-JN58-Z1

ConnectCore 6UL SBC Pro

- CC-WMX6UL-KIT
- CC-SBP-WMX-JN58

	· CC-SBP-WMX-JN7A <u>ConnectCore 6+</u> ConnectCore 6+ System-on-Module (SOM) · CC-WMX-KK8D-TN · CC-MX-LL7C-ML ConnectCore 6+ professional Development Kit (DVK) · CC-WMX6P-KIT <u>ConnectCore 6/6N</u> ConnectCore 6/6N System-on-Module (SOM) · CC-WMX-J97C-TN · CC-WMX-L96C-TE · CC-WMX-L87C-TE · CC-MX-L76C-Z1 · CC-MX-L86C-Z1 · CC-MX-L96C-Z1 · CC-WMX-L76C-TE · CC-WMX-K87C-FJA · CC-WMX-K77C-TE · CC-WMX-L97D-TN · CC-WMX-J98C-FJA ConnectCore 6 Jumpstart Development Kit (SBC with ConnectCore 6 module) · CC-WMX6-KIT · CC-SB-WMX-J97C-1 · CC-SB-WMX-L87C-1 · CC-SB-WMX-L76C-1
Timing of Change	Available in the embedded documentation portal now: www.digi.com/resources/documentation/digidocs/embedded/index.html Download available on GitHub: https://github.com/digi-embedded/meta-digi/tree/kirkstone Digi System-on-Module support website (select SOM platform): https://hub.digi.com/support/products/system-on-modules/
Notes	Requires software upgrade on existing product. Release Notes: https://github.com/digi-embedded/meta-digi/tree/kirkstone
Authorization	Digi International Embedded Product Management