

Product Change Notification		Date
Product		June 21, 2023
Digi Embedded Yocto Release 4.0-r3 (dey-4.0-r3)		

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-r3 is based on the Yocto Project® release 4.0 “kirkstone” and provides feature enhancements, bug fixes and Embedded Documentation Portal updates. Platform Support: CC8M Nano/Mini, CC6UL, CCMP13/15, CC93 <u>Release changelog</u> 4.0-r3 • ST-based platforms ○ Added preliminary TrustFence support ○ Fixed Ethernet PHY pinctrl resuming from deep sleep ○ Adjust CAN bus parent clock to achieve more accurate baud rates ○ Add DT overlay for Bluetooth raw test mode ○ Adjust NAND lines speed settings ○ Add specific kernel driver for Marvell Ethernet PHY on DVK ○ Fix race condition on bring up of LAN87xx Ethernet PHY ○ Disable auto-mount of microSD card to avoid race condition on kernel boot • NXP-based platforms ○ Added support to ConnectCore 93 ○ U-Boot v2022.04 (based on tag 'lf-5.15.71-2.2.0' by NXP) ○ Linux kernel v5.15.71 (based on tag 'lf-5.15.71-2.2.0' by NXP) ○ QT6 6.3.2 ○ Fix PMIC regulators suspend state on ConnectCore 8M Nano ○ Fix clock initialization issue on LAN8710/20 PHY on ConnectCore 6UL • General bug fixing and improvements 4.0-r2 • Added webkit support • ST-based platforms ○ Added support to ConnectCore MP13 ○ Updated BSP
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	▪ Updated Trusted Firmware ARM ▪ Updated OP-TEE ▪ Updated U-Boot v2021.10 ▪ Updated Linux kernel v5.15.67 (based on tag v5.15-stm32mp-r2 by ST) ▪ Updated Wi-Fi driver (based on 'v5.15.58-2023_0222' release from Cypress) ▪ Updated Wi-Fi firmware to 'imx-kirkstone-fafnir_r1.0' release from Murata • NXP-based platforms ○ Added support to ConnectCore 8M Mini ○ Added support to ConnectCore 8M Nano ○ Updated BSP ▪ Updated U-Boot v2020.04 ▪ Updated Linux kernel v5.15.71 (based on tag lf-5.15.71-2.2.0 by NXP) ○ Updated MCA firmware for ConnectCore 6UL to v1.22. ○ Added Qt 6.3.2 support for ConnectCore 8M platforms 4.0-r1 • Release based on Yocto 4.0 (kirkstone) including: for NXP-based platforms ○ New toolchain based on GLIBC-2.35 ○ Updated Qt 5.15.3 ○ Updated bluez5 to v5.64 ○ Updated gstreamer1.0 to v1.20.1 ○ Updated OpenSSL to v3.0.2 ○ Updated busybox to v1.35.0 ○ Updated NetworkManager to v1.36.2 ○ Package upgrades and security fixes • Updated mca-tool to v1.26 • Updated QCA65x4 Wi-Fi firmware and driver to include Cisco Extensions support (qcacld-2.0) • ST-based platforms ○ Linux kernel v5.15.24 (based on tag v5.15-stm32mp-r1 by ST) ○ U-Boot v2021.10 • NXP-based platforms ○ Linux kernel v5.15.52 (based on tag lf-5.15.52-2.1.0 by NXP) ○ U-Boot v2020.04
Affected Part Numbers (Supported Platforms)	<u>ConnectCore 93</u> ConnectCore 93 System-on-Module (SOM) · CC-WMX-YC7D-KN ConnectCore 93 Development Kit · CC-WMX93-KIT

ConnectCore MP13

ConnectCore MP13 System-on-Module (SOM)

- CC-ST-DX58-ZK
- CC-WST-DX58-NK

ConnectCore MP13 Development Kit

- CC-WMP133-KIT

ConnectCore MP15

ConnectCore MP15 System-on-Module (SOM)

- CC-ST-DW69-ZM
- CC-WST-DW69-NM

ConnectCore MP15 Development Kit

- CC-WMP157-KIT

ConnectCore 8M Mini

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

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

ConnectCore 8M Mini Development Kit

- 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

- CC-WMX8MN-KIT

ConnectCore 6UL

ConnectCore 6UL System-on-Module (SOM)

- CC-WMX-JN58-NE
- CC-MX-JN58-Z1
- CC-WMX-JN59-NN
- CC-WMX-JN7A-NE
- CC-WMX-JN7A-CBX
- CC-WMX-JN68-NN
- CC-WMX-JN69-NN
- CC-MX-JN69-ZN

	ConnectCore 6UL SBC Pro · CC-WMX6UL-KIT · CC-SBP-WMX-JN58 · CC-SBP-WMX-JN7A
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 Support website (select SOM platform and go to “Development Software and Sample Code” section): www.digi.com/support/supporttype?type=firmware
Notes	Requires software upgrade on existing product. Release Notes: https://github.com/digi-embedded/meta-digi/tree/kirkstone
Authorization	Digi International Embedded Product Management