

Product Change Notification		Date 16/09/2022
Product	Digi ConnectCore 6 Plus	

Reason for Change

<input type="checkbox"/> Technical Requirement	<input type="checkbox"/> Product Transition
<input type="checkbox"/> Customer Requirement	<input type="checkbox"/> Product Discontinuation
<input type="checkbox"/> Quality Improvement	<input checked="" type="checkbox"/> Product Enhancement
	<input type="checkbox"/> Other (Brand Change)

Description of change	<p>Digi received reports from customers about a sporadic issue / system instability, resulting in a kernel crash, in a small number of SOM devices.</p> <p>After technical investigation and testing it was determined that the following update solved the issue.</p> <p>A change in the DDR3 memory configuration / increase of the drive strength (DSE) from 40 Ohm to 34 Ohm fixes the instability problem. The u-boot software was updated to incorporate the change and released to github.</p> <p>Additional reports about a sporadic system freeze during the Linux boot-up sequence has been investigated. The issue occurs when the VPU driver initializes the VPU and the voltage rail of this hardware module has not reached the minimal voltage required.</p> <p>The problem was fixed by initializing the LDO_PU regulator already in the u-boot boot loader, so the voltage has reached the required level before the VPU is initialized.</p> <p>The modifications have been validated by Digi and the customers reporting the issues.</p>
Affected Part Numbers	<p>ConnectCore 6 Plus</p> <p>ConnectCore 6 Plus System-on-Module (SOM)</p> <ul style="list-style-type: none"> · CC-WMX-KK8D-TN · CC-MX-LL7C-ML <p>ConnectCore 6 Plus professional development kit</p> <ul style="list-style-type: none"> · CC-WMX6P-KIT

Timing of Change	Software patches are available on Github for all different DEY releases / branches now: https://github.com/digi-embedded/meta-digi/
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Notes	Digi recommends applying the change for new products and if stability issues have been seen with products in the field.
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Authorization	Digi International OEM Solutions Product Management
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