


PCN Overview			
			
PCN Number		DHCOR-iMX6ULL-004	
PCN Date		17.09.2020	
Type of Change		Change Software	
History			
Revision	Date	Description	Name
R01	10.09.2020	First draft	CN
R01	17.09.2020	Released	AG

Change Information	
Reason of Change	Older releases of DHCOM/DHCOR i.MX6ULL BSP Linux Kernel 4.19.25 doesn't set the correct VDD_SOC voltage for the 900 MHz CPU type according to the datasheet Rev. 1.3, 08/2018. In rare cases the 900 MHz CPU could crash under high load.
Description of Changes	The below mentioned patch set the correct VDD_SOC voltage for the 900 MHz CPU type.
Customer Impact	If customers use the 900 MHz CPU type and the DHCOM/DHCOR i.MX6ULL BSP Linux kernel version 4.19.25, they should check if the patch is already included in the used kernel sources. Also affected are old versions of the DHCOM/DHCOR update kernel. If customers use a 900 MHz CPU type and a custom kernel, the version must be updated to at least 4.19.85 or the patch must be added to the used version.
Suggested Measures	Linux 4.19.25: Affected customers must add the following patch to the Linux kernel to prevent an unstable CPU behavior: https://github.com/dh-electronics/linux-imx6qdl/commit/933c22069bb77cd84397eed1ef146e96aceabd46 Linux 4.19.135: Not affected, because it is fixed in Kernel version 4.19.85. Update Kernel: You have to use the release 2020-09-16 or newer. Available at: https://wiki.dh-electronics.com/index.php/DHCOM_iMX6ULL-D2#Update_Kernel
Logistics	-

Affected Products	
HI00068	DHCR-iMX6ULL-C090-R051-SPI-C-01LG
HI00070	DHCR-iMX6ULL-C090-R051-SPI-WBT-C-01LG
HI00062	DHCM-iMX6ULL-C090-R051-F0409-SPI-E2-CAN2-RTC-WBT-ADC-C-01D2
HI00063	DHCM-iMX6ULL-C090-R051-F0409-SPI-E2-CAN2-SD-RTC-ADC-C-01D2
HI00073	DHCM-iMX6ULL-C090-R051-F0409-SPI-E2-CAN2-RTC-WBT-ADC-C-01D2
HI00084	DHCM-iMX6ULL-C090-R051-F0409-SPI-E-CAN2-RTC-WBT-C-01D2

Contacts	
Technical Contact	Tel: +49 8662 4882 0 Mail: support@dh-electronics.com
Sales Contact	Tel: +49 8662 4882 0 Mail: sales@dh-electronics.com