

Mask Set Errata for Mask XN33G

This report applies to mask XN33G for these products:

- MWCT1xxxA

Table 1. Revision History

Revision	Changes
Mar 2019	Public release revision.

e9432: eFlexPWM: Fractional delay block may powerup with an output of 1 instead of 0.

Description: Any of the eFlexPWM outputs may be set to 1 upon powering up the fractional delay block. Because there is no reset signal to the flops in the fractional delay block to force a specific reset state, the output must be cleared by creating a pulse on the PWM. This issue only occurs when using the fractional delay block and only lasts until the first time that PWM channel transitions.

Workaround: After powering up the fractional delay block of the eFlexPWM by setting FRCTRL[FRAC_PU] and waiting the required power up time, program the VAL2-5 registers in all submodules to create a PWM pulse (>0% duty cycle) and run for at least one PWM period to clear the state of the registers in the analog block. This can be done prior to enabling the PWM outputs so that external circuitry is not affected.

e11484: POR: Residual voltage on VDD may cause POR unsuccessful.

Description: When powered on with residual voltage larger than 0.2V on VDD, there is a chance that POR signal releases when VDD rises to a value around 2.1V, and VCAP hasn't reached 1.2V yet. It may cause system to work abnormally, such as some internal peripherals can't be reset successfully, or the core cannot run. The residual voltage may be caused by an external clamping diode to VDD with the anode powered up earlier than VDD, or VDD not fully dropped to below 0.2V from last time powered off.





Workaround: Recommended VDD ramp rate is between 1 ms and 200 ms.

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