

June 15, 2023

Product Change Notification: Design Upgrade MCV Version V4.1

Description

Due to the End of Life of various components MCV will be upgraded to the new Version V4.1:

Component Information

eMMC NAND Flash

Deprecated part:	MTFC4GACAALT-4M IT
Introduced new part:	THGBMNG5D1LBAIT

DC-Converter

Deprecated part:	EN6347QI
Introduced new part:	MPM3860GQW

Deprecated part:	EP53A8LQI
Introduced new part:	MPM3810GQB

Clock Generator

Deprecated part:	5V49EE904NLGI
Introduced new part:	5P35023B-000NLGI8

Related to the clock generator change the following differences should be considered:

- the maximum output frequency is defined at 160MHz.
- the new device is one time programmable OTP, by factory default the OTP is not programmed. After initial startup the configuration can be changed via I2C interface.
- the CLK25HPS signal is fixed to 25MHz and is not programmable.
- the CLKEXTC and CLKEXTD signals are not available anymore.
- the signals IDT_SEL[0..2] are not used anymore.
- IDTV5 is not used anymore
- the datasheet may help with more information about the device functionality.

Product Change Notification



Bootloader and Operating System

The default software which is programmed to the eMMC NAND flash when the SoMs will be shipped from the factory is updated to

- U-Boot 2022.01 (Jan 10 2022 - 18:46:34 +0000)
- Poky (Yocto Project Reference Distro) 4.0.10 mcvevk ttyS0
- Linux mcvevk 5.15.100-altera #1 SMP Tue Mar 28 14:27:24 UTC 2023 armv71 armv71 armv71 GNU/Linux

Ordering Information

The product change mentioned above will affect the following products and result in new part numbers:

- MCV-2DB V4.1
- MCV-2DBI V4.1
- MCV-4DB V4.1
- MCV-4DBI V4.1
- MCV-5DB V4.1
- MCV-5DBI V4.1
- MCV-6DB V4.1
- MCV-6DBI V4.1
- MCV-X2DB V4.1
- MCV-X6DB V4.1

Change requirements

Independently of this information additional changes and qualification/validation work in hardware and/or software may be necessary to ensure proper functionality and product characteristics in the final customer products and applications.