

# Product Change Notification (PCN): 0021 Colibri T20 512MB V1.2A to 0021 Colibri T20 512MB V1.2B

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## 1. Affected Products

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00211200	Colibri T20 512MB V1.2A	00211201	Colibri T20 512MB V1.2B

## 2. Product Phase-in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00211200	Due to memory component supply issues, we can't assure last time buy (LTB) and last time ship (LTS) options. Existing orders are affected, except confirmed orders, and confirmed call-offs. The current product version will be sold until limited inventory is depleted under allocation and early orders will be prioritized.	00211201	Samples in February 2022 Volumes in March 2022

Toradex advises its customers to carefully validate the new product version before their production release. Samples for evaluation purposes will be available upon request.

### 3. Description of Changes

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#### Change #1: RAM

Replacing RAM: IM IM2G16D2DBBG-25 with Micron MT47H128M16RT-25E:C

#### Change #2: Touch and ADC functionality improvement

Replace capacitor C157: 10uF capacitor used for the touch/ADC reference with 1uF

### 4. Customer Impact

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#### Hardware

- No, or very minor impact due to the RAM change:
  - The JEDEC standard gives the min/max AC timings, and therefore they are identical.
  - According to the datasheet, the new Micron device has a 10% to 20% higher power consumption. The maximum case temperature supported by the Micron device is 10° C lower than that of the Intelligent Memory one.
  - The speed grades are different (25 vs. 25E), but that also does not have an impact since both parts are supporting the actual speed the RAM is being used at.
  - The width and height of the Micron package are smaller, which should not affect most of the applications.
  - The footprints of both parts are compatible.
- The component C157 is used for filtering the reference voltage of the Touch/ADC. The previously used capacitor value had been at the upper limit and in rare cases the Touch and ADC functionalities could show a slight drift-off over time due to capacitor degrading. The new, smaller capacitor value assures both less degrading and improved filtering capability for higher frequencies.

#### Software

- Linux: the aforementioned changes have no impact on compatibility.
- WinCE: the aforementioned changes have no impact on compatibility.
- The changes implemented do not affect customer software, however, please validate your use case. It is recommended to review and test your software, especially if you have customized Toradex-provided software or used your own software to take advantage of RAM specific features.

## 5. Contact

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- Please contact Toradex if you have any questions.
- For commercial and sales questions, please contact [shop@toradex.com](mailto:shop@toradex.com).
- For technical questions, please contact [support@toradex.com](mailto:support@toradex.com).