

uEZGUI-1788-43WQ# Family Product Change Notification Form

PCN Number: 20151201-01	Rev: 8.0	Date: 12/01/2015
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Summary of Change: FDI has modified the uEZGUI products specified in the “Products Affected” table to replace and upgrade the accelerometer, upgrade the backlight voltage generator diode, and enhance the 32.768 KHz crystal PCB footprint to better match new recommended manufacturer specifications.

Reason for Change: The MMA7455L accelerometer previously used in this uEZGUI has been discontinued by Freescale (see attached Product Discontinuance Notice). Modifications to the backlight voltage generator diode and crystal oscillator PCB footprint were incorporated for better performance and to better match new manufacturer recommendations. FDI believes these product enhancements may result in improved manufacturing yields.

Detailed Description of Change:

The accelerometer (U14) has been changed from a Freescale MMA7455L to an ST Micro LIS3DH. The LIS3DH accelerometer has improved user-selectable scales of $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ and is capable of measuring accelerations with output data rates from 1 Hz to 5 KHz. The LIS3DH allows for a wider operating voltage range of 1.71V to 3.6V. The LIS3DH is an LGA footprint and operates over an extended temperature range from -40 °C to +85 °C.

The LIS3DH uses a new I2C address. All documentation for the products affected have been updated to reflect this change. The uEZ software driver for the accelerometer has been updated to version 2.07b to support the LIS3DH and is compatible at the API level. Customer application firmware should not be affected by this change. Autodetection of the accelerometer by the uEZ driver for correct driver load is an added benefit of using a unique I2C address.

The backlight voltage generator (D1) changed from ZHCS400 to DFLS160-7. The new part is rated for 60V and 1A versus the old part which was rated for 40V and 500mA.

Per new recommended manufacturer specifications, the 32.768 KHz crystal (Y3) PCB footprint has been updated for 1.5mm between pads, pad width of 1.0mm and pad length of 1.8mm.

Products Affected:

Affected Product (Rev 5.0 - 7.3)	Recommended Replacement Product (Rev 8.0)
uEZGUI-1788-43WQR	uEZGUI-1788-43WQR
uEZGUI-1788-43WQR-BA	uEZGUI-1788-43WQR-BA
uEZGUI-1788-43WQR-BA-NT	uEZGUI-1788-43WQR-BA-NT
uEZGUI-1788-43WQT	uEZGUI-1788-43WQT
uEZGUI-1788-43WQT-BA	uEZGUI-1788-43WQT-BA

Availability of new revision stock at distributors:

Distributors will continue to sell through existing available stock before filling orders with revised product.

Forecasted Key Dates and Milestones:

12/01/15 PCN Date. The date this document was released for distribution to customers and distributors.

12/15/15 Production Date for Recommended Replacement Product. The first date that production quantities of the replacement units will be available for customer order.

Reference Documents: <http://www.teamfdi.com/wiki/doku.php?id=namespace:uezgui-1788-43wqr#uezgui-1788-43wqr>

1. Freescale Product Discontinuance Notice MMA7455L
(http://cache.freescale.com/files/shared/doc/pcn/PCN16753.htm?fsp=1&WT_TYPE=Product%20Change%20Notices&WT_VENDOR=FREESCALE&WT_FILE_FORMAT=htm&WT_ASSET=Documentation&fileExt=.htm)
2. uEZGUI-1788-43WQR Users Manual.pdf
3. uEZGUI-1788-43WQR_SCH_8.pdf
4. uEZGUI-1788-43WQR Rev 8 ECO

FDI Contacts:

For additional information or details please contact any of our franchised Distributors including Avnet, Digi-Key, Mouser and WPG Americas, Inc.

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