

PCN: V12-001-476103-OA

Product Change Notice

Issue Date: 12-March-2012

Change Type:

Incorporated 2 changes for AEDx-8xxx family product to improve overall product robustness

- 1). New Detector IC and Line Driver IC
- 2). Second source Contract Manufacturer

Parts Affected:

AEDx-8xxx Kits encoder: Please refer to below table.

Partnumbers	Partnumbers
AEDS-8001-A11	AEDT-8001-E11
AEDS-8001-A14	AEDT-8001-E14
AEDS-8001-E11	AEDT-8011-A11
AEDS-8001-H11	AEDT-8011-A14
AEDS-8011-A11	AEDT-8011-E01
AEDS-8011-E11	AEDT-8011-H14
AEDS-8011-E14	AEDT-8111-A11
AEDS-8011-H11	AEDT-8111-H02
AEDS-8011-H14	AEDT-8111-H14

Description and Extent of Change:

1. a.) Change Detector IC for AEDx-8xxx-Axx series with 500cpr option

	Current	New
Detector IC part no :	4CJ4	4DP2
Dimension :	2.43 X 2.80	2.63 X 2.80

- b.) Change Line driver IC for all AEDx-8xxx series

	Current	New
Line driver IC part no :	NS Line driver	Avago Line driver

- c.) Change Detector PCB Die Pad Size for all AEDx-8xxx series

	OLD PCB	NEW PCB
X Dimension	3.3	3.6
Y Dimension	3.9	3.9

- d.) Change 500cpr codewheel dimension for AEDx-8xxx-Axx series



2. Second source Contract Manufacturer (CM)

	Current	New
CM	CM1	CM2
Location	Johor, Malaysia	Kedah, Malaysia

Reasons for Change:

1. New Detector and Line driver IC
 - a. Change Detector IC for 500cpr devices – to improve on the product robustness towards index misalignment at customer application and also to improve product Test Yield.
 - b. Change Detector PCB Die Pad Size for all AEDx-8xxx series – to cater for the increase in the die size.
 - c. Change 500cpr codewheel dimension – to have a correct match to the new Detector IC layout
 - d. Change Line driver IC for all AEDx-8xxx series – due to NS line driver obsolete in the market and replaced with Avago line driver or comparable line driver IC in terms of specifications and performance.
2. Qualify New Contract Manufacturer for AEDx-8xxx series (existing CM for other encoder products in Avago) – as part of product assurance of supply and continuous quality improvement process.

Effect of Change on Fit, Form, Function, Quality, or Reliability:

The changes made are meant for overall product robustness improvement towards customer application conditions. Quality and reliability assessments are in progress. The changes made are intended to meet most of the designated requirements per the product datasheet specification and comparable performance as per the existing product.

The change will affect the electrical characteristic with a higher supply current (product qualification is in progress, refer to final datasheet by June'2012). Any other changes will be notified accordingly and will be reflected in the June'2012 datasheet.

Effective Date of Change:

Product shipment using this change will commence on or around June 2012 and may vary depending on depletion of current inventory.

Qualification Data:

The product qualification is in progress.
Sample readiness by May,2012.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.