

Product Change Notice

Issue Date: 6th-Sep-2023

Change Description:

Base encoder AEDR-9930E (rotary) and AEDR-9930EL(linear) maximum operating frequency enhanced from 2Mhz to 4Mhz for higher interpolation applications.

Auto calibration process enhanced to detect false Index due to misalignment with calibration status incomplete or calibration error.

Parts Affected:

Affected product encoders, evaluation board and programming kit with part numbers below.

Part Number	Part Description
AEDR-9930E-102	Reflective Rotary 397LPI encoder,TnR 100 pcs
AEDR-9930E-100	Reflective Rotary 397LPI encoder,TnR 1000 pcs
AEDR-9930EL-102	Linear 397LPI Encoder,TnR 100 pcs
AEDR-9930EL-100	Linear 397LPI Encoder,TnR 1000 pcs
HEDS-9930ELEVB	AEDR-9930EL Linear EVB-Codestrips
HEDS-9930ELPRGEVB	AEDR-9930EL Linear SPI Prog Kit EVB-CS
HEDS-9930EPRGEVB	AEDR-9930E Rotary SPI Prog Kit, Eval Board-CW 256 to 1440CPR
HEDS-9930EEVB	AEDR-9930E Rotary 397LPI Eval Board-CW 256CPR to 1440CPR
HEDS-9930E1EVb	AEDR-9930E Rotary 397LPI Eval Board-CW1 250CPR to 1440CPR
HEDS-9930E1PRGEVB	AEDR-9930E Rotary SPI Prog Kit, Eval Board-CW 250 to 1440CPR

Description and Extent of Change:

Enhance operating maximum frequency from 2Mhz to 4Mhz for higher Interpolation applications.

Auto Calibration process enhance to detect false Index due to misalignment with calibration status incomplete or calibration error. Calibration status (Cal_stat) pin at logic low.



Reasons for Change:

Higher operating frequency allow higher speed applications and allow wider market segment applications. Enhance Auto Calibration status to indicate incomplete calibration process for false Index due to misalignment, ease user identification in the application.

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

The enhancement features to the encoder has no impact to the product form, fit, functionality, quality or reliability.

Effective Date of Change:

Product shipments using this change will begin after [Sep/18th/2023]. Timing of shipment of the change part will vary by part number depending on the customer order and distributor inventory levels.

Qualification:

Appropriate product electrical characterization and product reliability qualification being performed on the product to ensure normal parametric distribution, consistent electrical performance, and reliability.

Software / Firmware Update:

Not applicable.

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.