



ADVANCED PRODUCT CHANGE NOTIFICATION

PCN-001040

Date: 23 JUN 2025

Change Details

Part Number(s) Affected:

- SX1509BIULTRT
- SX1509QBIULTRT

Customer Part Number(s) Affected: ☒ N/A**Description, Purpose and Effect of Change:**

This is a notification of changes the supply chain to allow more flexibility for the parts listed above. There is no change to form, fit or function or reliability.

Due to DCI (Dynacraft Industries) lead frame supplier plant closure, one our supplier's, Carsem (M) Sdn Bhd, supply chain has been impacted. To resume having supply chain flexibility, Semtech has initiated two changes:

- a.) Carsem (M) Sdn Bhd (POR Assembly Supplier – Malaysia).
Qualification of an alternative lead frame supplier, QPL, to replace DCI. The new assembly will have following key attributes.

Comparison of key attributes between POR = DCI, and QPL lead Frame

LDF Attribute	POR DCI Lead Frame	New QPL Lead Frame	Remark
LDF material	C7025	C7025	No Change
LDF thickness	0.152mm	0.152mm	No Change
Finish plating thickness	Matte Tin 300 ~1000μ"	Matte Tin 300 ~1000μ"	No change
Anti-EBO	Yes	Yes	Common (coating material may be different due to proprietary material used by each supplier)

- b) Qualification of new Assembly and Test Site (Greatek – Taiwan):


Operation	POR	Additional
Wafer Fab	TSMC	TSMC
Assembley	CARSEM Malaysia	GTK, TW
Test	Carsem Malaysia	GTK, TW



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Change Classification	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Minor	Impact to Form, Fit, Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Impact to Data Sheet	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	New Revision or Date	<input checked="" type="checkbox"/> N/A
Impact to Performance, Characteristics or Reliability: <ul style="list-style-type: none">No impact to performance, characteristics; or reliabilityNo Impact to data sheet content or package dimensions			
Implementation Date	Aug 2025 or Upon customer approval	Work Week	TBD
Last Time Ship (LTS) Of unchanged product	Not Applicable	Affecting Lot No. / Serial No. (SN)	Not Applicable
Sample Availability	Immediate	Qualification Report Availability	Included
Supporting Documents for Change Validation/Attachments: <ul style="list-style-type: none">Reliability testing progress at Carsem:<ul style="list-style-type: none">uHAST96, TC1000, HTS1000: Completed, PassSolderability Report: Completed, PassMSL1 Report: Completed, PassTest Characterization Report: CompletedHTOL is scheduled to complete by mid July 2025Reliability testing in progress at Greatek (GTK)<ul style="list-style-type: none">Scheduled to complete by end of August 2025			
Issuing Authority			
Semtech Business Unit:	AMW		
Semtech Contact Info:	QA representative: Les Fang Yuen lfangyuen@semtech.com +1 949-269-4443	Digital signature 	
FOR FURTHER INFORMATION & WORLDWIDE SALES COVERAGE: http://www.semtech.com/contact/index.html#support			