

## SLI Compliance Engineering Change Evaluation and Review Form

<b>Vendor:</b>	Hart InterCivic	<b>Date:</b>	04-Aug-2021
<b>Change ID:</b>	ECO-01492	<b>Affect System(s):</b>	Verity Voting 2.3, 2.4, 2.5, and 2.6
<b>Product:</b>	QFN package versions of the LT8711		

### Change Summary Description

**Summary Description:** ECO-01492 adds additional orderable part numbers to the Approved Manufacturing List (AML) for Hart part number 1005808, a power controller used on Verity Duo series devices. The added orderable part numbers are from the same existing approved manufacturer's part and vary only by component package shape. An interposer is used to fit the component package on the existing Duo PCBA baseboard with no changes needed to the board.

**Reason for Change:** Additional orderable part numbers must be added to due to long lead times caused by worldwide electronic component shortages.

**ECO Category:** Alternate Part Replacement




Change Evaluation		Comments
<input type="checkbox"/>	The change affects the form, fit or function of the equipment and therefore requires hardware testing to be performed. The testing requirements are defined in the Hardware Test Matrix table below. Any changes made to a system under test will result in the manufacturer supplying a list and detailed description of all changes.	N/A
<input checked="" type="checkbox"/>	<b>Minor change order:</b> A minor change order is a change to a certified voting system's hardware, software, Technical Data Package (TDP), or data, the nature of which will not materially alter the system's reliability, functionality, capability, or operation.	Requested updates do not materially alter the system's reliability, functionality, capability, or operation.
<input checked="" type="checkbox"/>	<b>System documentation:</b> The manufacturer has provided a description of how this change will impact any relevant system documentation and has provided the updated documentation, if applicable.	Supported documentation was provide for all equivalent components.

### Summary Comments

Analysis showed the alternate component's specifications are equivalent with respect to maximum ratings, pin out configuration, performance, temperature range and electrical characteristics. The only difference being the QFN package versions of the LT8711 includes an interposer. The interposer is an electrical interface routing between one socket or connection to another. The purpose of an interposer is to spread a connection to a wider pitch or to reroute a connection to a different connection.

Hart's internal Electrical Verification board level voltage testing between the existing LT8711 TSSOP and LT8711 QFN package with interposer show minor variance but is within spec. QA testing found no differences between the LT8711 package forms.

As required under section 3.5.1 of the EAC's Voting System Testing and Certification Program Manual Version 3.0, Hart InterCivic has provided the necessary information to verify the ECO-01492 is a minor change and therefore not to affect the Verity Voting 2.3, 2.4, 2.5, and 2.6 Federal certification status.

	Approved by/Title	Signature:	Date:
	Darrick Forester Hardware Test Engineer		04-Aug-21
	Traci Mapps Vice President, Voting/Health IT		04-Aug-21

