Title:	**Ambient Light Sensor Change**		
Type of Notification:	**Component Change, Design Change**	**Updated:**	**n/a**
Affected Areas:	**Ambient Light Sensor**	**Superseded By:**	**n/a**
Original Notification Date:	**07 Apr 2015**	**Supersedes:**	**n/a**

Scope:	Power	BOM	Design	PCB	Mechanical	Software
	☐	☒	☐	☒	☐	☐

Summary:
The Avago APDS-9002-021 Ambient Light Sensor has been EOL'd by the manufacturer per their PCN OBS070914IPD. *Serious* has elected to migrate to the Avago APDS-9005-020 per Avago's recommendation as this has similar performance characteristics, however this migration does require a PCB footprint change.

Affected Products*:

Family	LCD Option(s)	Variant(s)	Version(s)	PCB Revision(s)	Serial Number(s)
SIM115	All	A01, A02	v2.0	PCB-000019-02	All within Version + PCB Revision scope
SIM231	All	A02, A02	v2.0	PCB-000020-02	All within Version + PCB Revision scope
SIM535	All	A01, A02	v2.1	PCB-000018-03	All within Version + PCB Revision scope
			v2.2	PCB-000018-04	All within Version + PCB Revision scope

**See Identifying Affected Products (below) for more information.*

Detail/Root Cause
Avago EOL per Avago PCN# OBS070914IPD.

Workarounds and Software Implications
No workaround is required and software should continue to operate correctly.

Plans
New revisions of the affected products will use the APDS-9005-020.

Anticipated Products with Change Implemented

Family	LCD Option(s)	Variant(s)	Version(s)	PCB Revision(s)	Serial Number(s)
SIM115	All	A01, A02, A03, A04	Starting v2.1	Starting PCB-000019-03	All within Version + PCB Revision scope
SIM231	All	A02, A02, A03, A04	Starting v2.1	Starting PCB-000020-03	All within Version + PCB Revision scope
SIM535	All	A01, A02, A03, A04	Starting v2.3	Starting PCB-000018-05	All within Version + PCB Revision scope

Identifying Affected Products:

Affected products can be identified in the following ways:

- PCB silk screen with product and version number
- PCB silk screen of PCB revision
- Through the product serial number, which encodes the product identification and version, and can be accessed:
    - at runtime by OEM custom software as described in the product's Technical Reference Manual (TRM),
    - at runtime in SHIP GUIs,
    - using SHIPTide, and,
    - from an attached controller using the SHIPBridge protocol.
- The Manufacturing ID (MID) 2D matrix barcode on all units can be submitted to Serious for determination

For Further Information

Contact your local Serious manufacturers' representative or Contact Serious.

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