

## Product Change Notice

Issue Date: 12 Nov 2014

**Change Type:**

Avago Technologies is qualifying an alternate scrambler and painting source for leadframe S4 and Annunciator

**Parts Affected:**

All S4 and Annunciator, refer below for part numbers list

**Description and Extent of Change:**

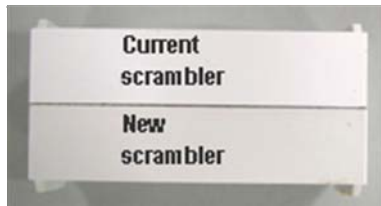
The selected new supplier shall be the alternate choice for existing painting and scrambler supplier. The new painting and scrambler will have the same functionality as the existing part

**Reasons for Change:**

To ensure continuous supply of all leadframe S4 and Annunciator

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

There will be no change of fit and function per product datasheet. New scrambler will have slight color tone different comparing to existing part, refer photo below:



**Effective Date of Change:**

The shipment with new scrambler will commence 90 days upon PCN issuance date. Each tube will only contain one scrambler source. There will be a mixture of both suppliers' parts within each shipment. Actual implementation by datecode will be advised later

**Qualification Data:**

All the qualification vehicles submitted to reliability tests passed Avago's stringent reliability test requirements. There were no functional defects observed during the reliability test.

Summary of test results as below:

HDSP-G511, HDSP-U211

Environmental/Life Test	Reference	Stress Profile	Unites Tested	Units Failed
Temperature Cycling	Avago Std	-55/100°C 15/5min Dwell/Transfer, 100cyc	231	0
High Temperature Operating Life	JESD22-A108	55°C, Max Derated Current, 1000hrs	66	0
High Temperature Humidity Storage Life	Avago Std	85°C, 85% RH, 500hrs	66	0
Solder Heat Resistance	JESD22-B106	260°C for 10s, 2x	30	0



**Part number lists (including all options part)**

5082-76xx	HDSP-4203	HDSP-5721-xxxxx	HDSP-A153	HDSP-F201
5082-7610-xxxxx	HDSP-4600	HDSP-5723	HDSP-A153-xxxxx	HDSP-F201-xxxxx
5082-7611	HDSP-4601	HDSP-5811	HDSP-A211	HDSP-F203
5082-7611-xxxxx	HDSP-4603	HDSP-5813	HDSP-A213	HDSP-F203-xxxxx
5082-7613	HDSP-4603-xxxxx	HDSP-7401	HDSP-A213-xxxxx	HDSP-F207
5082-7613-xxxxx	HDSP-4606	HDSP-7401-xxxxx	HDSP-A401	HDSP-F208
5082-7620	HDSP-4606-xxxxx	HDSP-7403	HDSP-A403	HDSP-F211
5082-7621	HDSP-5501	HDSP-7403-xxxxx	HDSP-A413	HDSP-F211-xxxxx
5082-7623	HDSP-5501-xxxxx	HDSP-7501	HDSP-A511	HDSP-F213
5082-7650	HDSP-5503	HDSP-7501-xxxxx	HDSP-A511-xxxxx	HDSP-F213-xxxxx
5082-7651	HDSP-5503-xxxxx	HDSP-7503	HDSP-A513	HDSP-F301
5082-7651-xxxxx	HDSP-5507	HDSP-7503-xxxxx	HDSP-A801	HDSP-F301-xxxxx
5082-7653	HDSP-5507-xxxxx	HDSP-7507	HDSP-A803	HDSP-F303
5082-7653-xxxxx	HDSP-5508	HDSP-7508	HDSP-A807	HDSP-F303-xxxxx
5082-7656	HDSP-5508-xxxxx	HDSP-7511	HDSP-A901	HDSP-F401
5082-7661	HDSP-5521	HDSP-7511-xxxxx	HDSP-A903	HDSP-F403
5082-7663	HDSP-5521-xxxxx	HDSP-7513	HDSP-A903-xxxxx	HDSP-F413
5082-7666	HDSP-5523	HDSP-7513-xxxxx	HDSP-A907	HDSP-F501
HDSP-315E	HDSP-5523-xxxxx	HDSP-7517	HDSP-A908	HDSP-F501-xxxxx
HDSP-315G	HDSP-5551	HDSP-7801	HDSP-E101	HDSP-F503
HDSP-315H	HDSP-5553	HDSP-7801-xxxxx	HDSP-E101-xxxxx	HDSP-F503-xxxxx
HDSP-315L	HDSP-5553-xxxxx	HDSP-7803	HDSP-E103	HDSP-F511
HDSP-316E	HDSP-5557	HDSP-7803-xxxxx	HDSP-E151	HDSP-F511-xxxxx
HDSP-316G	HDSP-5558	HDSP-7807	HDSP-E153	HDSP-F513
HDSP-316H	HDSP-5601	HDSP-7808	HDSP-F101	HDSP-F513-xxxxx
HDSP-316L	HDSP-5601-xxxxx	HDSP-8601	HDSP-F101-xxxxx	HDSP-H101
HDSP-316Y	HDSP-5603	HDSP-8601-xxxxx	HDSP-F103	HDSP-H101-xxxxx
HDSP-3351	HDSP-5603-xxxxx	HDSP-8603	HDSP-F103-xxxxx	HDSP-H103
HDSP-3353	HDSP-5607	HDSP-8603-xxxxx	HDSP-F107	HDSP-H103-xxxxx
HDSP-3356	HDSP-5607-xxxxx	HDSP-A101	HDSP-F108	HDSP-H107
HDSP-3600	HDSP-5608	HDSP-A101-xxxxx	HDSP-F111	HDSP-H108
HDSP-3601	HDSP-5621	HDSP-A103	HDSP-F111-xxxxx	HDSP-H111
HDSP-3603	HDSP-5621-xxxxx	HDSP-A103-xxxxx	HDSP-F113	HDSP-H111-xxxxx
HDSP-3900	HDSP-5623	HDSP-A107	HDSP-F151	HDSP-H113
HDSP-3901	HDSP-5623-xxxxx	HDSP-A107-xxxxx	HDSP-F151-xxxxx	HDSP-H151
HDSP-3901-xxxxx	HDSP-5701	HDSP-A108	HDSP-F153	HDSP-H153
HDSP-3903	HDSP-5701-xxxxx	HDSP-A111	HDSP-F153-xxxxx	HDSP-H157
HDSP-3903-xxxxx	HDSP-5703	HDSP-A113	HDSP-F157	HDSP-H158
HDSP-3905	HDSP-5703-xxxxx	HDSP-A125	HDSP-F158	HDSP-H211
HDSP-4201	HDSP-5721	HDSP-A151	HDSP-F161	HDSP-H211-xxxxx

HDSP-H213	HDSP-U301	HLCP-D100	HLMP-2785-xxxxx
HDSP-H213-xxxxx	HDSP-U303	HLCP-E100	HLMP-2800
HDSP-H413	HDSP-U311	HLCP-E100-xxxxx	HLMP-2820
HDSP-H413-xxxxx	HDSP-U313	HLCP-F100	HLMP-2820-xxxxx
HDSP-H511	HDSP-U401	HLCP-G100	HLMP-2835
HDSP-H511-xxxxx	HDSP-U403	HLCP-H100	HLMP-2855
HDSP-H513	HDSP-U411	HLCP-H100-xxxxx	HLMP-2855-xxxxx
HDSP-H513-xxxxx	HDSP-U413	HLCP-J100	HLMP-2870
HDSP-K111	HDSP-U413-xxxxx	HLMP-2300	HLMP-2870-xxxxx
HDSP-K113	HDSP-U501	HLMP-2300-xxxxx	HLMP-2885
HDSP-K121	HDSP-U501-xxxxx	HLMP-2350	HLMP-2885-xxxxx
HDSP-K123	HDSP-U503	HLMP-2350-xxxxx	HLMP-2950
HDSP-K211	HDSP-U503-xxxxx	HLMP-2366	HLMP-2965
HDSP-K211-xxxxx	HDSP-U511	HLMP-2400	QDSP-4985
HDSP-K213	HDSP-U511-xxxxx	HLMP-2400-xxxxx	QLCP-B247
HDSP-K213-xxxxx	HDSP-U513	HLMP-2450	QLCP-M096
HDSP-K511	HDSP-U513-xxxxx	HLMP-2450-xxxxx	QLMP-2976
HDSP-K511-xxxxx	QDSC-A000	HLMP-2500	
HDSP-K513	QDSP-7590	HLMP-2500-xxxxx	
HDSP-K513-xxxxx	QDSP-F140	HLMP-2516	
HDSP-N101	QDSP-K580	HLMP-2550	
HDSP-N103	QDSP-S023	HLMP-2550-xxxxx	
HDSP-N103-xxxxx	QDSP-S062	HLMP-2600	
HDSP-N105	QDSP-U221	HLMP-2620	
HDSP-N150	QDSP-U232	HLMP-2620-xxxxx	
HDSP-N151	QDSP-U239	HLMP-2635	
HDSP-N153	HDSP-4830	HLMP-2655	
HDSP-U101	HDSP-4830-xxxxx	HLMP-2655-xxxxx	
HDSP-U103	HDSP-4832	HLMP-2670	
HDSP-U111	HDSP-4836	HLMP-2685	
HDSP-U111-xxxxx	HDSP-4840	HLMP-2685-xxxxx	
HDSP-U113	HDSP-4840-xxxxx	HLMP-2700	
HDSP-U113-xxxxx	HDSP-4850	HLMP-2700-xxxxx	
HDSP-U201	HDSP-4850-xxxxx	HLMP-2720	
HDSP-U203	HLCP-A100	HLMP-2720-xxxxx	
HDSP-U203-xxxxx	HLCP-A100-xxxxx	HLMP-2735	
HDSP-U211	HLCP-B100	HLMP-2755	
HDSP-U211-xxxxx	HLCP-B100-xxxxx	HLMP-2755-xxxxx	
HDSP-U213	HLCP-C100	HLMP-2770	
HDSP-U213-xxxxx	HLCP-C100-xxxxx	HLMP-2785	