

Engineering Department

Engineering Change Order (ECO)

ECO #: 52085-001

Effective Date: May 19, 2016

Title: USB HUB Replacement

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 Engineering Approval: aeg
 Operations Approval: JJV

Date: April 20, 2016
 Date: May 18, 2016
 Date: May 19, 2016

Summary:

Current Dlink 7 port USB HUB (PN-014) being installed in Pro4 panels will be replaced with Sabrent 9 port USB 3.0 HUB.

Parts Affected:

Part Number	Notes	Removed	Added	Modified
PN4-014	Electronics Package D-Link USB Hub 7 Port	☒	☐	☐
Pro4-005	Cable Retainer 7 slot	☒	☐	☐
Pro4-005-Half	Cable Retainer 3 slot	☒	☐	☐
52085	Sabrent USB Hub (de-cased)	☐	☒	☐
52082	7 Slot Cable Retention Clip:	☐	☒	☐
52083	4 Slot Cable Retention Clip	☐	☒	☐

Detail:

Current Dlink 7 port USB HUB (PN4-014) in Pro4 panels display video frame drop on screen during operation. Visually the image on screen looks like skipping or jittery video image. This issue is visible with the combination of RevD DVD maker and Dlink USB HUB (PN4-014). By implementing the Sabrent USB HUB (52081), the video frame drop is no longer visible during operation of the system. As a result, all new pro4 panel assemblies will include the Sabrent 9 port USB HUB (52085) starting from the effective date stated above. Production will be using the new Sabrent HUBs (52085) in current built panels if any frame dropping issue is present.

Action Item:

Action	Department	Acknowledgement Initials
Remove all Dlink Hubs (PN-014) from inventory. Replace Dlink Hubs (PN-014) with Sabrent 9 port Hubs (52081).	Inventory	SL
Quarantine all Dlink USB HUBs (PN-014)	QC	NS
Replace Dlink USBB HUBs (PN-014) Hubs with Sabrent (52085) when frame drop issue is present	Production	KK
Purchase enough parts to meet production demand. Notify Pro4 panel assemblers of the change and provide appropriate documentation.	Purchasing	NS

Modified / Referenced Documents:

Document	Current Revision
PN4-014B - Pro4 Accessory Board Drawing	B
52082 – Cable Retainer 7 Slot for Sabrent USB Hub Drawing	A
52083 – Cable Retainer 4 Slot for Sabrent USB Hub Drawing	A
USB HUB and M100 Mounting Instructions	A

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