

	Doc or ECO #:	ECO-71095-006	Date:	01/18/2023	Author:	SL
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	1/18/2023	Quality Approval	aeg

P/N #:	71095	Effective Date:	January 18, 2023
Title:	DisplayPort Video Cable Change		

1.0 Purpose / Summary

The purpose of this change is to alleviate a video signal loss issue common when using the HDMI port with the OnLogic ML100-52G

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
71095	Top Level Panel Assembly	☐	☐	☒	L
72431	Added One DisplayPort to HDMI To BOM	☒	☐	☐	A
73279	EOD ISO Updated From 3.2.0.0 to 3.2.0.3	☐	☐	☒	B
72749	Basic/Pro ISO Updated 6_19_22 to 01_17_2023	☐	☐	☒	C
71644	Modified Cable Retention Bracket	☐	☐	☒	D

3.0 Detail

- When the OnLogic ML100-52G's HDMI Port was in use certain HDMI extension cables would intermittently cause the video to lose signal or pixelate. When the extension cable was removed or replaced the issue would disappear.
- 73279 & 72749** have been updated to the following
 - Software disabled HDMI port
 - The HDMI port was acting as a built-in display which causes it to be selected as the primary display, to counter act this we disabled the HDMI port.
 - To disable the HDMI port the grub bootloader under **/etc/default/grub** was altered to the following
Previously: **GRUB_CMDLINE_LINUX_DEFAULT="quite splash"**
Updated: **GRUB_CMDLINE_LINUX_DEFAULT="quite splash video=eDP-1:d"**
 - Iperf3 preinstalled for future bandwidth testing and quality control
 - The serial connection in putty previously named **ttyUSB0** has been renamed to **vr485**, this will ensure future compatibility when different serial devices are used or if there is more than one device in use concurrently.

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3. An additional DisplayPort to HDMI converter **[72431]** has been added to replace the disabled HDMI port
4. The cable retention bracket **[71644]** has been modified to account for the addition of the DisplayPort to HDMI cable
5. The top-level panel assembly **[71095]** revision has been incremented to account for the change.

4.0 Disposition of Material

- Upgrade existing stock of **[70218]** to the latest revision **[71095]**
- Modify current stock of **[71644]** to the latest revision

5.0 Action Items

Action	Department	Acknowledgement Initials
Update Epicor & BOMs	Engineering	Steven L.
Update Drawings	Engineering	Joe V.
Update Work Instructions WI-70218 J.2	Engineering	Joe V.
Gather Previous Revision Parts for Rework	Inventory	Sarah L.
Review changes with Production	Production/Engineering	Steven L./Rich M.
Rework existing Stock	Production	BILL M
Purchase additional stock of 72431	Purchasing	Rusty M.

6.0 Modified / Referenced Documents:

Document	Current Revision
BOM-71095	L
ME-71095	L
WI-70218	J.2

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7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
01/18/2023		Init release	SL
1/27/2023		Updated to include done WI for 70218	JV