crosscontrol

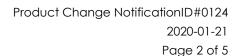# Product Change Notification   ID#0124

Title of notification

HW and SW update - CCpilot VS

Level of Change

☒   Product Change Notice – Customer Information

☐   Product Change Notice – Customer Approval

☒   Product Change Notice – Customer Action

☐   Product End of Life – Required Customer Action

☐   Errata – Customer information

Affected Products

#	Product Part Number	Product Name	Revision after change
1	C000139-212	CCpilot VS 12"	1.2
2	S004139-212	CCpilot VS 12", Linux, CoDeSys TV+W 0 ST LinX Base	1.2
3	S022139-212	CCpilot VS 12" , CODESYS TV, 0 ST LinX Base	1.2
4	S020139-212	CCpilot VS 12", LinX Base	1.2
5	S002139-212	CCpilot VS 12" , CODESYS TV	1.2
6	S024139-212	CCpilot VS 12" , CODESYS TV + WV, 2 ST LinX Base	1.2
7	S021139-212	CCpilot VS 12" , CODESYS NoVisu	1.2

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Product Attribute Affected

☒ Material Change ☐ Process Change

☒ Design Change ☐ Data Sheet Change

☒ Software Change ☐ Packing/Shipping Change

☐ Other: -

Impact of change

☐ Form ☒ No change in form

☐ Fit ☒ No change in fit

☒ Function ☐ No Change in function, description below

If applicable, see description below.

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Description of Change(s) and Reasons for change

NRND = Not Recommended for New Designs, indicating a coming EOL on the part.

EOL = End Of Life is called for the part and it will not be available anymore.

Component	Related function	Reason for change	Comment
imx6	Main processor	New revision step from manufacturer	Replaced by successor recommended by manufacturer.
DDR3	Main Processor memory	EOL	Replaced by a compatible replacement. Also a calibration of the timing parameters for the memory trace routing needed to be done. The timing parameter change requires the OS to be updated to CC Linux v1.4.2.0 or later.
1v2, 2v5 converters	Ethernet	NRND	Converters and some passive components to be replaced.
Transistors	BOOT selection and SS/PMIC debugging	NRND/EOL	Replaced by evaluated alternative.
Connector	White USB	Customer request	Replaced by CC and customer evaluated connector.
Connector	Black USB	Customer request	Replaced by CC and customer evaluated connector.
Inductor	Analog Video	EOL	Replaced by evaluated alternative.
12V Regulator	Power	Enhanced stability	Changed 12V regulator mode from CCM to DCM and recalculating COMP net.

Software – Operating system

The Operating System (OS) will be updated to CC Linux v1.4.2.0. Changes include:

- Suspend mode support (requires SS update to v1.2.0.0)
- Support for NTSC analog video
- DDR3 memory timing parameter update
- Increased VRAM for graphics heavy applications
- USB Audio support
- Many bug-fixes and minor changes

After log in to our support site, you can view the entire release notes and download the image for evaluation:

https://support.crosscontrol.com/downloads/ccpilotvs

Please refer to the following documents on how to update the OS:

CC Linux - Software Guide

CC Linux – System Update Using MfgTool2

Software – System Supervisor

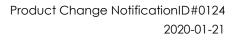The System Supervisor firmware will be update to v1.2.0.0. Changes include:

- Suspend mode support
- Changed button LED behavior and color scheme.
- Several bug-fixes.

After log in to our support site, you can view the entire release notes and download the firmware for evaluation:

https://support.crosscontrol.com/downloads/ccpilotvs

Please refer to the following documents on how to update the SS firmware:

CC Linux - Software Guide

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Recommendation

All changes will be validated as far as possible on the CrossControl side but you might want to test yourself that your applications run as before. Any functional safety aspects of your system might require validation. We see no reason why it shouldn't work as before, but please test your application with the new OS and SS prior to the production introduction.

Estimated Change Date

Preliminary timeplan:

March 2020: Production introduction.

Contacts

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