

PCN n°	20180321001	Created by:	AC	Date:	21/03/2018
		Released by:			
Title	BSP update on imx6 SMARC module				
Supplier Contact	comm@roj.com				
Proposed 1st Ship Date	May 2018	Estimated Sample Availability	Under request		

CHANGE INFORMATION										
Change Type / Intention										
HW	SW	Drawing / 3D Model	BOM	Technical spec (CTF)	Packing / Logistic Instruction	Other				
	X									
PRODUCT		SMARC		Related P/N		09E00791 09E00806 09E00807				
				Description		iMX6x SMARC module				
		Linked to:								
ROJ RDM		3570								
PCO										
Deviation report n°										
Purchasing Order										

REASON							
Update of the bootloader and linux kernel							
DESCRIPTION							
<p>The BSP installed on the SMARC module will be updated with the new uboot and kernel provided by the processor vendor.</p> <p>All the customization related to the hardware are ported to the new BSP.</p> <p>In order to optimize the production flow, a minimal footprint for the new BSP is implemented.</p>							
Anticipated impact on Form, Fit, Function, Quality, or Reliability (positive / negative)							
<p>Since there are many differences between the current and the new version, customers that have based their application on the current BSP, must port it on the new platform. No impact if customers reprogram SMARC module with their own BSP.</p> <p>New BSP is based on a core-image-minimal, while the current is based on QT5 image.</p>							
Changes to product identification resulting from this PCN							
	<table border="1"> <thead> <tr> <th>Current revision</th> <th>New revision</th> </tr> </thead> <tbody> <tr> <td>Uboot 2016.03</td> <td>Uboot 2017.03</td> </tr> <tr> <td>Linux Kernel 4.1.15</td> <td>Linux Kernel 4.9.11</td> </tr> </tbody> </table>	Current revision	New revision	Uboot 2016.03	Uboot 2017.03	Linux Kernel 4.1.15	Linux Kernel 4.9.11
Current revision	New revision						
Uboot 2016.03	Uboot 2017.03						
Linux Kernel 4.1.15	Linux Kernel 4.9.11						

	Custom QT5 image with: packagegroup-qt5-base packagegroup-qt5-fonts packagegroup-qt5-graphics packagegroup-qt5-web packagegroup-qt5-extra packagegroup-fsl-gstreamer1.0-full qtmultimedia-examples cinematicexperience i2c-tools canutils pciutils strace ldd imx-gst1.0-plugin imx-gst1.0-plugin-gplay kernel-firmware-brcmfmac43362-sdio bash bashrc v4l-utils imx-vpu imx-gpu-viv test-smarc spitools alsa-utils-aplay alsa-utils-speakertest	Custom core-image-minimal with: Bash Bashrc kernel-modules util-linux i2c-tools pciutils iperf3 canutils ldd strace nano kernel-firmware-brcmfmac43362-sdio test-smarc python3 python3-argparse python3-subprocess python3-json python3-io python3-shell python3-datetime tar
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INSTRUCTIONS

New or modified Drawing

New / modified	P/N	Description	Drawing rev	Stock	How to deal Old Stock	Sample required

Other documentation

New / modified	Description	Document name