Subjects Re: [IMPORTANT & URGENT] Need your help to get USB 3 & GBE port working on 52 HBP-v.2.3 ASAP Otherwise, I have to return 6 58 HBP-v.2.3 back to you.
From: Josus Mayer of josus@joslef-un.com.
Date: 19/1/2003, 3 Life PM
Subject Re: [IMPORTANT & URGENT] Need your help to get USB 3 & GBE port working on 52 HBP-v.2.3 ASAP Otherwise, I have to return 6 58 HBP-v.2.3 back to you.
From: Josus Mayer of josus@joslef-un.com.
Date: 19/1/2003, 3 Life PM
Subject Re: [IMPORTANT & URGENT] Need your help to get USB 3 & GBE port working on 52 HBP-v.2.3 ASAP Otherwise, I have to return 6 58 HBP-v.2.3 back to you.
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Subject Re: [IMPORTANT & UR

After a lengthy debugging session we have figured out where our Debian images diverged from the revision 2.3 carrier and were able to show both usb type A ports, both ethernet ports, and the mpcie slot functional

In order to resolve your USB and mPCle problems, please use the latest-preview image (https://images.solid-build.xyz/htx8/Deblan/sr-imx8-deblan-builseye-20200804-preview-cli-imx8mq-sdnc-hummingboard-pulse.img.xz)m and install the attached dtb file to 2 locations on partition 1 of your microSD:
- boot/dtbs/4.19.3-si-imx8-sr/jmx8mq-hummingboard-pulse.img.xz)m and install the attached dtb file to 2 locations on partition 1 of your microSD:
- boot/dtbs/4.19.3-si-imx8-sr/jmx8mq-hummingboard-pulse.img.xz)m and install the attached dtb file to 2 locations on partition 1 of your microSD:
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- boot/dtbs/4.19.3-si-imx8-sr/jmx8mq-hummingboard-pulse.img.xz)m and install the attached dtb file to 2 locations on partition 1 of your microSD:
- boot/dtbs/4.19.3-si-imx8-sr/jmx8mq-hummingboard-pulse.img.xz)m and install the attached dtb file to 2 locations on partition 1 of your microSD:
- boot/dtbs/4.19.3-si-imx8-sr/jmx8mq-hummingboard-pulse.img.xz)m and install the attached dtbs/4.19.1.
- boot/d

I will eventually be generating new images that address the problems around USB - mpcie is problematic because right now we have to choose between enabling wifi on SoMs - or enabling the mpcie slot. We hope to find a solution to automating this.

The intel NIC on the Carrier was already functional by my tests. You do however need to explicitly configure the network interface yourself, since our images only come with default settings for one interface. Ideally you would refer to the Debian Manual on this- however as a shortcut you can create a textfile at etx/network/interfaces.d/eth1 with below content:
eth1 automatic configuration
allow hotplug eth1

iface eth1 inet dhcp iface eth1 inet6 auto

This will automatically enable the interface with dhop for jpv4 and zeroconf for jpv6 on connecting to a switch or other network device

Yours sincerely Josua Mayer

Am 10.09.20 um 16:10 schrieb johnkzao@nctu.edu.tw:

Look forward to hearing from you early next week

Sabbath shalom!

From: Ilya Viten [mailtoning @solid-nun.com]
Sent: Thursday, September 10, 2020 8.24 PM
Sent: Thursday, September 10, 2020 8.24 PM
Circinate and Contract C

First of all we apologize for the delay in handling this, we had some SW staff changes and this issue has been escalated to our management and CTO who will look into it and get back to you shortly. We will provide you with an updated Debian image for Rev 2.3 of the HummingBoard asap as well.

Ilya Viten | Sales & Marketing +972-52-5799206 | https://www.solid-run.com

On Thu, Sep 10, 2020 at 2:31 PM <johnkzao@nctu.edu.tw> wrote:

Shalom Ilya, Josua, Tal & Jon! Good morning!

I still haven't received a reply from any of you on a solution of our problem. Please help us to solve the problem before your Sabbath

Otherwise, we have to return the six (6) HummingBoard Pulse v.2.3 [SRHBCUE000CV23/1] we received back to you and ask you to pay the return postage since there is NO WAY for us to get these boards fully functioning.

I've been using SolidRun IMX6 & IMX8 products since 2017 and was a HAPPY customer. I can no longer say that these days. Unfortunately, NOW is the time I am working under a lot of pressure to meet the need of big custom

John K. Zao PhD (Harvard) SMIEEE
CTO, FiduciaEdge Technologies
CTO, FiduciaEdge Technologies
Chair, IEEE 1934 a 1935 Working Group
Vice Chair, IEEE Standard Committee on Edge/Fog/Cloud Communications with IOT & Big Data
Co-Chair, IEC Birthubet Computing & Security Working Groups

From: joinksap@ntu.edu.tw [mailto:joinksap@ntu.edu.tw]
Sent: Tueday, September 8, 2009-915 AM
S

Please review the attached slide deck for our test results. You can click on the WORD file kons on Slide 1 to see the complete boot log of each test.

1 think the problem we encountered was caused by a mismatched debian image or a mismatched device tree blob [078]. Please provide us with the ones we shall install on our SR-HBP-v.2.3 [SKU: SRHBCUE000CV23/1].

Would you please help us to solve this problem with the next two days? We need to ship these boards to our collaborators before this weekend. I copied this email exchange to them as well Please feel free to call me via Skype or FaceTime using the following contact information

THANK YOU IN ADVANCE!

From: Ilya Viten [malko:liya@solid-un.com]
Sent: Tuesday, September a, 2020 12:21 MM
Sent: Tuesday, September 3, 2020 12:22 MM
Ilya Senti Sentia Sent

ericywliang <<u>ericywliang@nctu.edu.tw</u>>
Subject: Re: Need your help to get USB 3 & GbE port working on SR-HBP-v.2.3 ASAP. THANKS!

I'm adding josua as well who maintains the debian images.

Hope you had a peaceful Sabbath.

My colleague Tommy finished a set of thorough tests on SR-HBP-v.2.3 using the following four different build images:

The following table summarized his finding

| HW SKU | image name | HDMI | USB-1 | USB-2 | 1GbE/PoE Ethernet | Ethernet | Ethernet (PCIe) |
|---|---|------|-------|-------|----------------------|----------|--------------------|
| SKU: SRHBCUE000Cv23/1 | sr-imx8-debian-bullseye-20200804- preview-cli-imx8mq-sdhc-hummingboard- pulse.img | Pass | Pass | Fail | Pass | Fail | Fail |
| | sr-imx8-debian-buster-20191120-cli- imx8mq-sdhc.img | Pass | Fail | Fail | Pass | Fail | Fail |
| | sr-imx8-debian-buster-20200713-cli- imx8mq-sdhc.img | Pass | Fail | Fail | Pass | Fail | Fail |
| | sr-imx8-debian-bullseye-20200713-cli- imx8mq-sdhc.img | Pass | Fail | Fail | Pass | Fail | Fail |
| SKU: SRHBCUE000CV21/4 SRHBCUE000CV22 (with WiFi) | sr-imx8-debian-buster-20191120-cli- imx8mq-sdhc.img | Pass | Pass | Pass | Pass | N/A | N/A |

n, the following list shows the status of PCI, USB and Ethernet ports extracted from the boot logs of SR-HBP-v.2.3.

sr-imx8-debian-bullseye-20200713-cli-imx8mq-sdhc.im Bus 004 Device 002: ID 04b4-6500 Cypress Semiconductor Corp. Bus 004 Device 001: ID 146b:0003 Linux Foundation 3.0 rook hub Bus 003 Device 002: ID 044-6500, Cypress Semiconductor Corp. Bus 003 Device 001: ID 146b:0002 Linux Foundation 2.0 rook hub Bus 002 Device 001: ID 146b:0002 Linux Foundation 3.0 rook hub Bus 001 Device 001: ID 146b:0003 Linux Foundation 3.0 rook hub Bus 001 Device 001: ID 146b:0003 Linux Foundation 3.0 rook hub Bus 002 Device 002: ID 04b4:6500 Cypress Semiconductor Corp. Bus 002 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub Bus 001 Device 002: IO 04b4:5502 Cypress Semiconductor Corp. CY4609 Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub 1GbE/PoE 1GbE/PoE HDMI USB-1 USB-2 HDMI USB-2 Ethernet Ethernet (PCle) Ethernet Ethernet Pass Pass Pass Pass Pass May I ask what build image we should use to boot a SR-HBP-v.2.3, which is without Wi-Fj but with a GbE module installed on the mPCle stot? Also, we need the proper Device Tree Blobs that match with SR-HBP-v.2.3. THANKS A LOT! From: Jon Nettleton [mailto:jon@solid-run.com]
Sent: Monday, August 31, 2020 3.03 PM
To: johnkan@mctu.edu.tur
CCT Tal Pilo 1-station@solid-run.com>; Nya Viten <<u>lua@solid-run.com></u>; Noam Wertywlliang entrywllang@mctu.edu.tur>
Soligett: Rev. Need your helpin get a 110 3.8 a. 6 Befort brorking. This VI <u>enfeld@solid-run.com</u>>; Rabeeh Khoury <u><rabeeh@solid-run.com</u>>; 顕女汪 <u><tommya0942@nctu.edu.tw</u>>; KevinTing 丁國平 <<u>KevinTing@aaeon.com.tw</u>>; KenPan 清五楷 <<u>KenPan@aaeon.com.tw</u>>; Gary Gan <<u>gary gan@pet.cs.nctu.edu.tw</u> The MXRBM SOC only supports 2 PCIe devices without the use of a PCIe switch. One of the PCIe root ports is used by the will module on the SOC. If this module is not assembled then this PCIe port can be used by the mini PCIe slot on the carrier, but this is an assembly option at manufacturing. The second PCIe port is used by the intel NCC. From: jointage@fictu.edu.tu [nsiltoijointage@fictu.edu.tu]

Sext: Monday, upus 13, 2000 1218 # W

To: Tai Pilo' <a to be a control of the co THANK YOU Tall for your reply! THANKS AGAIN! Best regards, On Sat, Aug 29, 2020 at 11:13 AM <johnkzao@nctu.edu.tw> wrote Hope you enjoy a peaceful day! My colleagues Tommy Wang has completed our tests on the six (6) SolidRun HummingBoard Pulse modules [<u>SSU-SRHBCUE000CV23/1</u>] we ordered using the defollowing ports: § The upper USB 3 port (marked as USB1) on the dual port USB connector; § The RJ45 Ethernet port next to the PoE Ethernet port. Can you provide us with the proper BSP and the device tree so that we can use these I/O ports? Were we using a wrong BSP? Please advise From: 順於王 [mailto_commay0342@nctu_edu_tw]
Sent: Friday, August 28, 2020 4:26 PM
To 場后度_CTOS/采提的nis_phinzao@nctu_edu_tw?
CCit lay Viten - qualagedid-un_com_tw] to Jain by Books of the City Viten - qualagedid-un_com_tw]. KevinTing TIRT - kevinTing@aaeon.com_tw- KenPan 清孟帝 - kenPan 清aeon.com_tw - kenPan 清aeon.com_tw - <a Dear Tal,
The attachment is the test result of Solidrun Humming Board-Pulse, (with console log) Please help clarify the problem that USB and Ethernet are not functional, thank you! <johnkzao@nctu.edu.tw> 於 2020年8月24日 週一上午9:25寫道: THANK YOU, Ilya, for your swift reply! SHALOM, Tall And, THANKS for your help THANKS A LOT for all your efforts! I am adding Tal our lead SW engineer to help, Tal can you check the mail below and advise please? Ilya Viten | Sales & Marketing +972-52-5799206 | https://www.solid-run.com On Sun, Aug 23, 2020 at 5:51 PM <johnkzao@nctu.edu.tw> wrote: Shalom, Ilya & Noam! Hope you had a peaceful Sabbath May I ask you to provide us with the BSP for SolidRun HummingBoard Pulse v.2.3 [SKU:SKU:SRHBCUE000CV23/1]?

2 of 3 9/10/2020, 11:31 PM

Re: [IMPORTANT & URGENT] Need your help to get USB 3 & GbE po...

```
Would you please refer us to the BSP that's compatible to v.2.3? In addition, please provide us with the I/O addresses of the USB 3.0 ports.

THANKS A LOT!

John

Tar Pis, Selvace Team Manager

-972.53.7918666 https://www.salidan.com
```

im/Simp-hummingboard-pulse.dtb 27 bytes

3 of 3 9/10/2020, 11:31 PM