Release note

DA7218 Linux device driver

RN-DA7218_Linux_Mainline_2r0

Abstract

Information field	Description
Architecture	ARM
Device	DA7217/8
Device Type	Codec
Device Revisions	AA, AB
Operating System	Linux
OS Version	v4.5-rc1 (or later)
Release ID	DA7218_Linux_Mainline_2r0
Release Date	1-Feb-2016
Release Type	Linux Driver

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1   Terms and definitions

ALSA   Advanced Linux Sound Architecture
IC   Integrated Circuit
LKML   Linux Kernel Mailing List

2   Summary

This is the release of the Linux Device Driver for the Dialog DA7217/8 Power Management IC.

This document covers the purpose of this release, changes since the previous release and known limitations for the DA7217/8 Power Management IC. It covers these topics in relation to the device driver content and device tree descriptions where appropriate.

The exact list of features contained in the DA7218 device driver is described in the associated Application Note that comes with this release.

2.1   Deliverable details

The complete list of delivered files is:

- RN-DA7218_Linux_Mainline_2r0.pdf (this file)
- AN-DA7218_Linux_Mainline_001.pdf

3   Kernel versions supported

The DA7218 driver is fully supported in Linux kernel mainline tree from tag v4.5-rc1. The source code can be found at the following location:

```
http://git.kernel.org
```

An example of how to download and access the kernel source code is provided below:

```
git clone git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux.git mainline
cd mainline
git checkout v4.5-rc1
```

3.1   Kernel submission history

- v4.5-rc1: Full driver support for AA/AB silicon.

3.2   Searching for kernel updates

Future updates and bug fixes applied to the DA7218 device driver files can be found in the Linux kernel logs and in the Linux kernel mailing list. The full list of alterations to a file is available through the Linux kernel commit logs. An example command to list the commits for the full change history of a file would be:

```
git log --tags --source --oneline [filename]
```

4   System requirements

- DA7217/8 populated target board
- Cross-compiler tools for target architecture

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- GNU Make
- Linux v4.5-rc1 kernel source
- Target root file-system containing relevant ALSA based utils for testing/usage.

5 Known limitations

N/A

5.1 Device driver limitations

N/A

5.2 Platform limitations

N/A

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6   Revision history

Revision	Date	Description
1r0	10-Jun-2015	Initial version.
1r1	14-Aug-2015	Mic Level Detect & Wake-up Source support.
Mainline_2r0	1-Feb-2016	LKML acceptance into v4.5-rc1 Linux Kernel
Change details: ● Driver now accepted by LKML, and can be found as part of mainline kernel source. ● New document layout.		

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Status definitions

Status	Definition
DRAFT	The content of this document is under review and subject to formal approval, which may result in modifications or additions.
APPROVED or unmarked	The content of this document has been approved for publication.

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