

ClockMatrix™

Firmware Compatibility with Linux PHC Driver

Abstract

This application note provides the minimum ClockMatrix version for use with the Linux PHC (PTP Hardware Clock) driver for ClockMatrix.

For related information, see [ClockMatrix™ Timing Solutions](#) and [PTP Clock Manager for Linux](#).

1. Recommended Firmware Versions

ClockMatrix Device	Firmware Version
8A34001	4.8.7
8A34002	4.8.7
8A34003	4.8.7
8A34004	4.8.7
8A34005	5.2.2

Note: The firmware version is the major release, the minor release, and the hot fix.

For a running device, the user can find the firmware version in the following registers:

Register Name	Description
GENERAL_STATUS.MAJ_REL	Major release number.
GENERAL_STATUS.MIN_REL	Minor release number.
GENERAL_STATUS.HOTFIX_REL	Hotfix release number.

For the specific version of firmware or more details about these registers, see the *8A3xxx Family Programming Guide*.

2. Recommended Linux Kernel Release

To use the firmware versions listed in the previous section, Renesas recommends the driver module in Linux Kernel v5.11 (starting with v5.11-rc1) or later. To use this driver with earlier versions of the kernel, see the “Backporting to Linux v3.x+” section in the *Linux PTP Using PHC Adjust Phase Reference Manual* available on the [PTP Clock Manager for Linux](#) web page.

3. Revision History

Revision	Date	Description
1.0	Jan.29.21	Initial release.

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