

# 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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