

FIELD SERVICE BULLETIN

FSB# 180427

April 27, 2018

Revised March 20, 2019

Issue: 2019 GPS Week Number Rollover Event

On April 7, 2019 at 00:00:00 UTC the GPS week number count will rollover from 1023 to 0.

EndRun GPS Products Not Affected by Week Number Rollover

Sonoma GPS Network Time Server

(with GPS Subsystem firmware 6010-0076-000)*

Meridian II Precision TimeBase

Tycho II Precision TimeBase

RTM3205 Precision Timing Module

All CDMA Synchronized Products

These products use the proprietary EndRun GPS receiver. It will provide correct time for all GPS week number rollover events. You do not need to upgrade firmware.

3027-xxxx-xxx Sonoma D12 GPS Network Time Server (**Serial Number greater than 17060023**)

3029-xxxx-xxx Sonoma N12 GPS Network Time Server (**Serial Number greater than 17070062**)

3041-xxxx-xxx Tycho II Precision TimeBase

3043-xxxx-xxx Meridian II Precision TimeBase

3205-xxxx-xxx RTM3205 Precision Timing Module

Notes:

*To get GPS Subsystem firmware part number, send command: `gpsversion<Enter>`

EndRun GPS Products Possibly Affected by Week Number Rollover

Sonoma GPS Time Server **

(with GPS Subsystem firmware 6010-0071-000)***

Unison GPS Network Time Server

Tempus Gntp Time Server

Praecis Gfr Precision GPS TimeBase

Tempus LX GPS Network Time Server

Meridian Precision GPS TimeBase

Tycho GPS Frequency Reference

Praecis Gntp Time Server

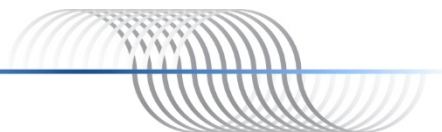
RTM3204 Precision Timing Module

These products use a third-party GPS engine. If the GPS subsystem firmware version is equal or greater than as indicated in the following table, the unit will not be affected by the GPS Week Number Rollover and will maintain correct time to 2035. Otherwise, you must upgrade to the latest version. Upgrade the Linux Subsystem to the latest version as well.

Notes:

**Sonoma GPS Time Servers shipped before June 2017 with the GPS firmware (6010-0071-000) version lower than 2.01 will be subject to a <1 microsecond error for a few days prior to the rollover event. Immediately after the rollover, the unit will provide correct time until 2029. However, we highly recommend upgrading to the latest version extending operation to 2035.

*** To get GPS Subsystem firmware part number, send command: `gpsversion<Enter>`



Part Number and Description	GPS Subsystem version in which rollover fix was implemented	Linux/NTP Subsystem part number	Kernel Part Number	Recommended Action
3027-xxxx-xxx Sonoma D12 GPS Network Time Server (Serial number less than or equal to 17060023) 3029-xxxx-xxx Sonoma N12 GPS Network Time Server (Serial Number less than or equal to 17070062)	6010-0071-000, V2.01 or higher	6010-0065-000	6010-0064-000	Upgrade all firmware to latest versions
3019-xxxx-xxx Meridian Precision GPS Time Base 3021-xxxx-xxx Tycho GPS Frequency Reference 3015-xxxx-xxx Tempus LX GPS Network Time Server 3017-xxxx-xxx Unison GPS Network Time Server 3204-xxxx-xxx RTM3204 GPS Timing Module	6010-0020-000, V5.10 or higher	6010-0042-000 or 6010-0044-000	NA	Upgrade all firmware to latest versions
3009-xxxx-xxx Praecis Gntp Network Time Server (GPS) 3010-xxxx-xxx Praecis Gfr Precision Time Base 3012-xxxx-xxx Tempus Gntp Network Time Server (GPS)	6010-0001-004, V2.22	6010-0006-000	NA	Upgrade all firmware to latest versions

Note: 'x' is a variable number.

To Upgrade:

Follow instructions in Appendix B of your user manual. User manuals for all products can be found at this link:
<http://www.endruntechnologies.com/documentation.htm>

Firmware updates can be found at this link:
<http://www.endruntechnologies.com/download.htm>

Contact Information:

Feel free to contact us if you have any questions or need help.

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Revision

03/20/2019: Additional changes to clarify that firmware upgrade is required in some (not all) cases.
 03/18/2019: Removed footnote to clarify Sonoma operation with third party GPS engine.

