



Product Bulletin

Time and Frequency
02-003-JD11-2018

Week Number Roll Over (WNRO) for Trimble (active) standard products

Overview

Trimble wishes to notify users of Thunderbolt, 360 and GG variants of timing receivers that the firmware has the following Week Number Roll Over cutoff dates.

This bulletin covers the following products.

Trimble Part Number	Description	Firmware	Cutoff date Week number mm/dd/yyyy	Roll over to Week number mm/dd/yyyy
97975-05	Res SMT 360	1.04	2952 08/09/2036	1929 12/25/2016
97975-05	Res SMT 360	1.05	3004 08/08/2037	1981 12/24/2017
96975-00	ICM SMT 360	1.04	2952 08/09/2036	1929 12/25/2016
96975-00	ICM SMT 360	1.05	3004 08/08/2037	1981 12/24/2017
106406-00/05	Acutime 360	1.03	2952 08/09/2036	1929 12/25/2016
106406-00/05	Acutime 360	1.04	3004 08/08/2037	1981 12/24/2017
89999-00	Res SMT GG	1.08	2863 11/25/2034	1840 04/12/2015
89999-00	Res SMT GG	1.09	2927 02/16/2036	1904 07/03/2016
92626-00/05	Acutime GG	1.08	2863 11/25/2034	1840 04/12/2015
92626-00/05	Acutime GG	1.09	2927 02/16/2036	1904 07/03/2016
95959-00	Mini T GG	1.02	2927 02/16/2036	1904 07/03/2016
95959-00	Mini T GG	1.03	2959 11/27/2036	1936 02/12/2017

<http://www.trimble.com/timing>

60333-30	Thunderbolt E	1.03	2590 09/01/2029	1567 01/17/2010
60333-50	Thunderbolt E	1.04.01	2606 12/22/2029	1583 05/09/2010

Verification of WNRO

Trimble has performed tests for the WNRO (cutoff date) on timing receivers and firmware versions listed in the table above.

The “cutoff date” column shows the last day when the correct day, month, year is output. Afterwards the dates will not be valid.

The “roll over to” column is the date output the day after the cutoff date.

Note that although after “roll over” the reported date will not be correct, the PPS output is still valid.

A simulator using a GPS static scenario was used to perform our verification of this cutoff date.

WNRO extension for 360 products

From v1.05 of the Res SMT 360 and ICM SMT 360 software release and v1.04 of the Acutime 360 a new command to extend the WNRO date was introduced. The 0x30 command described below adds the ability to change the base week so that it extends the week number roll over based on the new date instead of the firmware build date.

Command Packet 0x30 Use input as UTC Date and Time to add future roll over date

Byte	Item	Type	Description
0	Packet ID	U8	30
1-2	Year	U16	Four Digits of the year
3	UTC:Month	U8	1-12
4	UTC:Day of Month	U8	1-31
5	UTC:Hour	U8	0-23
6	UTC:Min	U8	0-59
7	UTC:Sec	U8	0-59

NOTE: Do not use a date earlier than the current firmware date.

For example

10 30 07 E3 01 01 00 00 00 10 03 ### Change base date to 2019 1st Jan 00:00:00 ####

If you have any further questions please contact your local Trimble sales representative.