GORGY

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Dear all,

The purpose of this letter is to inform you about several events regarding some products synchronized with GPS. A rollover is expected on the GPS OEM receiver we integrate in our products using the GPS system. This intrinsic GPS system event may have consequences on your equipment.

Please, find the necessary information below.

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The Rollover description

The rollover is an inevitable event in the life of a GPS board because a GPS board has a lifecycle of 1024 weeks. At the end of its lifecycle, it resets to its initial time.

This rollover date depends on the initial time of the embedded firmware. Therefore, reset dates differ accordingly to manufacturers and models. It is necessary to be well informed about it.

What impact does it have on devices?

If the module resets, the device will not be synchronized anymore and will display the initial date (no changes on time though). The device itself will not be damaged but any other device synchronized on it may display the wrong date and time.



What are the solutions ?

To solve this problem, 3 solutions can be used depending on the device, production dates and solution implementation:

1. GPS receiver board update

If your devices have been produced in 2003 or later, they only need to be updated by our technicians or a trained maintenance team. In this case, please contact us in order to do the necessary operations in time.

2. Device replacement

In the case of a device made before 2003, update operations are not manageable. The hardware is not compatible with the newest GPS receiver boards. It is needed then to replace all concerned products by new versions. **RTB GPS with the reference 4028/xx must be changed quickly**.

3. Holdover mode

In order to ease the transition, it is possible to use a temporary solution to the rollover. It is indeed possible to keep your devices a few days in holdover. Before the reset that will occur you need to unplug the synchronization source (antenna). The device will keep running on its internal time base. The device will not be synchronized anymore but will keep running. Careful though, the drift on some devices is about a second a day. This solution must not stay permanently.

The Rollover schedule

You can find some information on the product. All products have a sticker at the back with at least this information:

- Brand Name: Gorgy Timing
- Product reference : ex. 4028/xxx
- Serial number : YYXXXX where (YY : Year of production and XXXX: Production number in the current year)



The detailed schedule

Reference GT	Name Product	Mean to identify the reference	GPS board	Rollover Problem	Date of rollover occurrence MM/DD/YY	Chipset manufact urer	Replacement product	Year of Production
92100/xxx	Ledi Network NTP server	Sticker on the product	38116-20	Yes	07/28/2018	Trimble	Ledi Network ITSv2m or TS	From April 2005 to June 2007 included
92100/xxx	Ledi Network NTP server	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Ledi Network ITSv2m or TS	From July 2007 to december 2008 included
92100/xxx	Ledi Network NTP server	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Ledi Network ITSv2m or TS	From january 2009 to february 2010 included
92100/xxx	Ledi Network NTP server	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	Ledi Network ITSv2m or TS	From March 2010 to August 2011 included
4015/8xx	GPS2000	Sticker on the product	*	Oui	*	Motorola	Ledi Network ITSv2m or TS	Before December 2002
4015/8xx	GPS2000	Sticker on the product	28835-20	Oui	30/07/2016	Trimble	Ledi Network ITSv2m or TS	From January 2003 to June 2008 included
4028/xxx	RTBGPS	Sticker on the product	*	Oui	*	Motorola	RTBGPS (4048/xx)	Between 1995 and 1998
4028/xxx	RTBGPS	Sticker on the product	28835-20	Oui	30/07/2016	Trimble	RTBGPS (4048/xx)	From 1998 to January 2002 included
4038/xxx	RTBGPS	Sticker on the product	28835-20	Yes	07/30/2016	Trimble	RTBGPS (4048/xx)	From February 2000 to January 2002 included
4038/xxx	RTBGPS	Sticker on the product	38115-20	Yes	07/29/2017	Trimble	upgrade	From February 2002 to June 2003 included
4038/xxx	RTBGPS	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	upgrade	From July 2003 to July 2006 included
4038/xxx	RTBGPS	Sticker on the product	46240-25	Yes	09/14/2025	Trimble		From October 2006 to June 2007 included
4048/xxx	RTBGPS with antenna	Sticker on the product	58048-00	12/07/202 5	Trimble	upgrade	upgrade	From July 2007 to December 2008 included
4048/xxx	RTBGPS with antenna	Sticker on the product	58048-10	02/28/202 7	Trimble	upgrade	upgrade	From January 2009 to February 2010 included

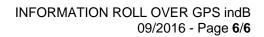
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4048/xxx	RTBGPS	Sticker on the product	63530-00	2/29/202 9	Trimble	N/A	N/A F	From March 2014
Reference GT	Name Product	Mean to identify the reference	GPS board	Rollover Problem	Date of rollover occurrence MM/DD/YY	Chipset manu- facturer	Replacement product	Year of Production
NT819	NT819- RT4000 Module	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	Upgrade	From February 2006 to June 2007 included
NT819	NT819- RT4000 Module	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Upgrade	From July 2007 to december 2008 included
NT819	NT819- RT4000 Module	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Upgrade	From january 2009 to february 2010 included
NT819	NT819- RT4000 Module	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	From March 2010
NT829	NT829- RT4000 Module	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	Upgrade	From February 2006 to June 2007 included
NT829	NT829- RT4000 Module	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Upgrade	From July 2007 to december 2008 included
NT829	NT829- RT4000 Module	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Upgrade	From january 2009 to february 2010 included
NT829	NT829- RT4000 Module	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	From March 2010
92114/xxx	Ledi Network ITS.V1	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	Ledi Network ITSv2m or TS	From February 2006 to June 2007 included
92114/xxx	Ledi Network ITS.V1	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Ledi Network ITSv2m or TS	From July 2007 to december 2008 included
92114/xxx	Ledi Network ITS.V1	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Ledi Network ITSv2m or TS	From january 2009 to february 2010 included
92114/xxx	Ledi Network ITS.V1	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	Ledi Network ITSv2m or TS	From March 2010
92152/xxx	Ledi Network ITS	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Ledi Network ITSv2m	From July 2007 to december 2008 included
92152/xxx	Ledi Network ITS	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Ledi Network ITSv2m	From january 2009 to february 2010 included



Reference GT	Name Product	Mean to identify the reference	GPS board	Rollover Problem	Date of rollover occurrence MM/DD/YY	Chipset manu- facturer	Replacement product	Year of Production
92167/xxx	Ledi Network ITS.V2	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	From September 2011 to feb. 2016 included
92167/xxx	Ledi Network ITS.V2m	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	Since March 2016
92197/xxx	Ledi Network ITS.V2 2U	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	From September 2011 to feb. 2016 included
92197/xxx	Ledi Network ITS.V2m 2U	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	Since March 2016
92208/Gxx	Ledi Network TS (with 3Gx antenna)	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	Since June 2013
92209/Nxx	Ledi Network TS	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	N/A	Since October 2014
9286/xxx	Ledi Network ENHANCED GPS	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	Ledi Network TS	From June 2004 to July 2005 included
92139/xxx	Ledi Network 1SRK ENHANCED	Sticker on the product	58048-00	Yes	12/07/2025	Trimble	Ledi Network TS	From July 2007 to December 2008 included
92139/xxx	Ledi Network 1SRK ENHANCED	Sticker on the product	58048-10	Yes	02/28/2027	Trimble	Ledi Network TS	From January 2009 to February 2010 included
92139/xxx	Ledi Network ENHANCED GPS	Sticker on the product	63530-00	Yes	12/29/2029	Trimble	Ledi Network TS	From March 2010 to May 2014 included
3192/xxx	Ledi 1SRK	Sticker on the product	38116-20	Yes	07/28/2019	Trimble	Ledi Network TS	From March 2002 to January 2006 included
3192/xxx	Ledi 1SRK	Sticker on the product	46240-25	Yes	09/14/2025	Trimble	Ledi Network TS	From February 2006 to March 2007 included
3Gx	GPS Antenna	Sticker on the product	46240-25	Yes	09/14/2025	Trimble	N/A	From January 2010 to February 2014 included



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Warning for Motorola chip: the date written on the chip is probably not the firmware date.

* : for Motorola chip we don't have information from the provider that allows us to communicate on real rollover dates. Tests are running but not giving expected results now. We consider it is anyway better to upgrade or change the obsolete product.

The previous tab in this document has been deleted because dates were probably not accurate. Tests are running to identify the date associated to the Motorola serial number.

We accept that the customer open the products for all the units produced before February 2004.

For more information or demands, please contact us, we will be pleased to help you:

<u>Support@gorgy-timing.fr</u> / +33(0) 892 68 70 68