

PCN – Product Change Notification

| | |
|-----------------|---|
| Topic : | Product Migration to RoHS Compliance (Lead-free) and Firmware 5.00 |
| | UBX-TN-06002 |
| Author : | GzB |
| Date : | January 24, 2006 |

We reserve all rights in this document and in the information contained therein. Reproduction, use or disclosure to third parties without express authority is strictly forbidden.

© 2005 u-blox ag.

1 Affected Products

| Technology | Product Name | Order Number | Data Code (Old) | Data Code (New) | Remarks |
|------------|--------------|----------------|------------------|-----------------|---------|
| ANTARIS | TIM-LP | TIM-LP-0-000-x | ≤130100.1621.000 | 130000.2030.000 | |

2 Type of Change

Hardware modification

Firmware update

Others, _____

3 Description of Change

3.1 RoHS Compliance (Lead-free)

Increased environmental awareness and coming legislations like the European Community directives for Wastes from Electric and Electronic Equipment (WEEE) and Restriction of Hazardous Substances (RoHS) are the driving forces for the electronics industry to move to environmentally friendly lead-free electronic products and assembly processes. The European directives impose rules on use of lead and other hazardous materials by July 1, 2006 and will affect the global market of electronic products.

Details are provided in our web page www.u-blox.com/technology/leadfree

3.2 Firmware 5.0

u-blox has recently released the ANTARIS GPS Firmware 5.0 for both ANTARIS and ANTARIS 4 GPS products. This firmware contains significant improvements in navigation performance, new features as well as bug fixes. The new firmware will be rolled out in GPS products containing Flash EPROM.

Details are summarized in the release notes [3].

4 Schedule

For the products listed above, shipments of the lead-free products listed above will start in Early February 2006, after the stocks of previously manufactured leaded products have been cleared.

5 Customer Impact and Recommended Action

5.1 RoHS Compliance (Lead-free)

The lead-free products from u-blox are backward compatible. They may be applied in both leaded and lead-free assembly and soldering processes. See [1] and [2] for recommended soldering profiles applicable to GPS modules.

5.2 Firmware 5.0

The GPS firmware 5.00 is backward compatible (few minor exceptions apply, see release notes [3]) to its predecessors 3.0x (TIM-LP, TIM-LF, TIM-LL) and 3.10 containing SuperSense (TIM-LH). Customers in possession of older modules may obtain the firmware image from u-blox.

See http://www.u-blox.com/customersupport/antaris_fw.html.

Prior login or registration on the website is required.

6 Reference Documents

- [1] TIM-Lx System Integration Manual, GPS.G3-MS3-01001
- [2] LEA-LA System Integration Manual, GPS.G3-MS3-05019
- [3] ANTARIS GPS Firmware Version 5.00, Release Notes, GPS.G4-SW-06000

All reference documents are available on our website: <http://www.u-blox.com/customersupport>.