

ENGINEERING CHANGE NOTIFICATION FORM

ECN: 100-001-000123		REV: 1	ISSUE DATE: 12/18/2012						
TYPE OF CHANGE: Firmware Modification									
DETAILED DESCRIPTION OF CHANGE: Firmware improvements outlined in detail below.									
REASON FOR CHANGE: Functionality Improvements and bug fixes.									
PRODUCTS AFFECTED: <table border="1" data-bbox="131 667 1458 852"> <thead> <tr> <th>Firmware Version</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>Units with firmware version 0.928 and earlier</td> <td> FireFly-1A GPSTCXO/GPSOCXO LC_XO M9107/9108 </td> </tr> </tbody> </table>				Firmware Version	Model	Units with firmware version 0.928 and earlier	FireFly-1A GPSTCXO/GPSOCXO LC_XO M9107/9108		
Firmware Version	Model								
Units with firmware version 0.928 and earlier	FireFly-1A GPSTCXO/GPSOCXO LC_XO M9107/9108								
AVAILABILITY: <table border="1" data-bbox="131 884 1458 951"> <thead> <tr> <th>MILESTONE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>ECN sent to customer</td> <td>12/21/2012</td> </tr> </tbody> </table>				MILESTONE	DATE	ECN sent to customer	12/21/2012		
MILESTONE	DATE								
ECN sent to customer	12/21/2012								
Issue: NMEA sentences such as \$PGGGA may be missing a leading zero in the longitude output for longitudes less than +/-10 degrees. Longitudes greater or equal to +/-10 degrees are not affected. NMEA specifies a constant number of digits for longitude, and the missing leading zero may cause some application software to interpret the longitude incorrectly. The latitude output is properly formatted.									
Cause: The NMEA output format is incorrectly programmed by missing a leading zero in the longitude field for longitudes less than 10 degrees from Greenwich.									
Affected products: FireFly-1A GPSTCXO/GPSOCXO LC_XO M9107/9108									
Solution: Upgrading affected units to firmware revision 0.929 will fix this issue.									
REFERENCE DOCUMENTS/ATTACHMENTS:									
<table border="1" data-bbox="131 1751 1458 1860"> <thead> <tr> <th>CONTACTS</th> <th>NAME</th> <th>EMAIL</th> </tr> </thead> <tbody> <tr> <td>Product Manager</td> <td>Said Jackson</td> <td>support@jackson-labs.com</td> </tr> </tbody> </table>				CONTACTS	NAME	EMAIL	Product Manager	Said Jackson	support@jackson-labs.com
CONTACTS	NAME	EMAIL							
Product Manager	Said Jackson	support@jackson-labs.com							

PLEASE CONTACT JACKSON LABS TECHNOLOGIES, INC. WITH ANY QUESTIONS