

ENGINEERING CHANGE NOTIFICATION FORM

ECN: 100-001-000124	REV: 3	ISSUE DATE: 07/19/2013
TYPE OF CHANGE: Firmware Modification		
DETAILED DESCRIPTION OF CHANGE: Issue stated in detail below.		
REASON FOR CHANGE: Functionality Improvements and bug fixes.		
PRODUCTS AFFECTED:		
	Firmware Version	Model
** Only firmware versions 2.37, 2.38, 2.39 and 0.64/0.65/0.66 are affected.	FireFly-1C	CSAC
	FireFly-II	HD CSAC
	FireFly-IIA	LN CSAC
	LC_1x1	SAASM CSAC
	Mini-JLT	
	ULN-2550 and ULN-1100	
AVAILABILITY:		
	MILESTONE	DATE
ECN sent to customer		7/23/2013
Issue		
<p>a. Firmware 2.37 for FireFly type boards, and 0.66 for CSAC type boards introduced the NMEA GPGSV command string option. It was found that if more than 16 sats are being received at the same time the board may reset itself. This may happen in areas where multiple SBAS satellites are visible, such as the EGNOS satellites in Europe. This reset happens within seconds, and the user may not notice it unless capturing and processing the NMEA or other output messages.</p>		
Affected Products		
<p>a. Any FireFly-II type product (Mini-JLT, LC_1x1, FireFly-II/A, ULN-1100, ULN-450 and others) with firmware 2.37, 2.38, or 2.39</p> <p>b. Any CSAC type products (CSAC GPSDO, HD CSAC, SAASM CSAC) with firmware 0.66 ⇒ Please note that products with older firmware that do not support the GPGSV command string are not affected.</p>		
Solutions - Two fixes are available:		
<p>a. Disable the NMEA GPGSV output string by sending the SCPI command GPS:GPGSV 0 to the unit. The problem will not occur if the GPGSV output has not been manually enabled by the user or if less than 16 satellites are being received.</p> <p>b. Upgrade the firmware to version 2.41 or 0.67 or later on FireFly units or CSAC units respectively</p>		
REFERENCE DOCUMENTS/ATTACHMENTS:		
CONTACTS	NAME	EMAIL
Product Manager	Said Jackson	support@jackson-labs.com

PLEASE CONTACT JACKSON LABS TECHNOLOGIES, INC. WITH ANY QUESTIONS