



ECN #: 80200672
REV #: 1.0

DATE: 02-AUG-2021

ENGINEERING CHANGE NOTIFICATION

CHANGE TYPE:	HW_FW Modification	REASON FOR CHANGE:	Component Obsolete
DESCRIPTION:	The processor on FireFly-IIA has reached end of life. The processor has been replaced with similar parts. The firmware is updated to 3.16 to support the new processor.		

Products Affected	
Product Families	Models
FireFly-IIA	All FireFly-IIA model variants

Detailed Change Notes:

Issue 1: Processor on the above listed product families has reached end of life.

Resolution: The processor was replaced with a similar processor in production that is form, fit, and function compatible. The firmware was updated to support the new processor while maintaining functional compatibility.

Issue 2: The new processor allows higher clock rates for increased time capture resolution.

Resolution: The firmware v3.16 improves the time capture resolution from $\pm 8\text{ns}$ to $\pm 5\text{ns}$ using the higher clock rates, while maintaining power consumption at the current specifications. Increased time capture resolution results in improved oscillator stability while locked to GPS.

Reference Documents / Attachments

Not Applicable

TITLE	NAME	E-MAIL
Embedded Software Engineer	Min Lan	support@jackson-labs.com

PLEASE CONTACT JACKSON LABS TECHNOLOGIES, INC. WITH ANY QUESTIONS