

### Features

- ◆ Boot
  - ◆ X-Loader 1.4.4
  - ◆ U-boot 2010.06
  - ◆ Boot Linux from SD card, NAND Flash or Ethernet
  - ◆ NAND Image update from SD card
- ◆ Kernel and drivers
  - ◆ Kernel Version 3.2.0
  - ◆ File system Format for YAFFS2/NFS/EXT3
  - ◆ Software Drivers for Serial, RTC, NET, NAND, MMD/SD, USB and USB OTG
- ◆ Source code for Alico Kinetic 3500 OMAP FPGA Sensor Development Kit (SDK) hardware
  - ◆ Software drivers for accelerometer, gyroscope, magnetometer, temperature sensors, and GPS
  - ◆ OMAP Test Utilities Suite
  - ◆ Web based GUI for monitoring, configuration, and diagnostic
  - ◆ Embedded Web Server
- ◆ Development Tool Supported
  - ◆ GCC embedded compiler/toolchain
  - ◆ Eclipse
  - ◆ Xilinx ISE Design Suite
- ◆ Kernel Distribution Supported
  - ◆ Linux-omap Kernel

### Benefits

- ◆ Turn-key embedded FPGA Sensor Development Kit based on the open source software for OMAP Family Processor
- ◆ Allows developers to concentrate on creating domain and product differentiation features
- ◆ Simplify learning curve about the fundamentals of OMAP technology and open source software
- ◆ FPGA allows developers to implement custom hardware functionality and signal processing algorithms without actual hardware redesign, reducing engineering recurring costs, and faster time to market
- ◆ Web based GUI for onboard provisioning, monitoring and diagnostic
- ◆ Embedded web server supporting web page creation and GUI customization
- ◆ Well-designed APIs that can be easily used to create custom software

### GrayFox 3500 Software Subscription and Support Includes:

- ◆ DVD containing source and executables for Alico Kinetic 3500 FPGA OMAP SDK and related documentation.
- ◆ Getting Started Guide
- ◆ End User License Agreement
- ◆ 12 months of technical support and software updates

### Overview

For the developer who wants to jumpstart the creation of OMAP product differentiation features without being slowed down learning the fundamentals of OMAP, writing basic software drivers, or getting up to speed on information on open source software, Alico GrayFox 3500 Software Subscription and Support product is the answer. GrayFox 3500 provides source code for peripherals and sensory devices offered by Alico Kinetic 3500 OMAP FPGA Sensor Development Kit (SDK) product. The software is written specifically for the OMAP3500 processor family. Designed and manufactured by Texas Instruments, the OMAP3500 is a high-performance multimedia applications processor comprised of an advanced Superscalar ARM Cortex-A8 RISC core with NEON SIMD coprocessor and a C64x+ digital signal processor (DSP) core.

Designed for Alico Kinetic 3500 SDK, GrayFox 3500 provides source code software drivers for the sensory components such as accelerometers, gyroscopes, magnetometers, temperature sensors, GPS module, as well as OMAP general I/O interfaces like USB, I2C, SPI, and GPIO. The Test Suite is a collection of test scenarios, written to validate NEON coprocessor complex operations and to unit test OMAP kernel drivers. The test scenarios can be invoked from the command line options or can be integrated into the custom environment by invoking the provided application programming interfaces (API).

GrayFox 3500 also comes with Web Server that can deliver system information when queried by a standard web browser. The product provides source code for the web server. The web server has the capabilities for changing web pages dynamically and maintaining dynamic objects. The web server contains backend code to control and provision individual hardware components, monitor and capture data from onboard devices such as accelerometers, gyroscopes, magnetometers, temperature sensors, and GPS. The web server allows storage of embedded web pages in local RAM, flash, onboard SD card or to a remote computing device via a network.

### Target Market

GrayFox 3500 Software Subscription and Support is designed specifically for Alico Kinetic 3500 SDK. The combination of Kinetic 3500 SDK and GrayFox 3500 supports the following potential markets:

- ◆ High-speed Data Logging Systems
- ◆ GPS Based Handheld Devices
- ◆ Vehicle Tracking Systems
- ◆ Location Tracking Systems
- ◆ Set-Top Boxes
- ◆ Robotic Applications
- ◆ Motion Control Systems
- ◆ Platform Stabilization Systems
- ◆ Video Game Human Machine Interaction Systems
- ◆ High-speed Video Encoder/Decoder Systems

### Sample Web Based Screenshots

### Specifications

OMAP SDK Software Subscription and Support	
<b>Software</b>	<b>OMAP Test Utilities</b>
<b>Base Support Package</b>	Pin Mux Configuration
<b>Boot</b>	Register Read and Write
X-Loader 1.4.4	GPIO Read and Write
U-boot 2010.06	Verification S/W for NEON Coprocessor
Boot Linux from SD card, NAND Flash or Ethernet	Device Driver Test Suite
<b>Kernel and Drivers</b>	FPGA Configuration
Linux Kernel 3.2.0	
File system Format - YAFFS2/NFS/EXT3	<b>Additional Support (12 months)</b>
S/W drivers for Serial, RTC, NET, NAND, MMD/SD, USB & USB OTG	Build Environment
<b>Custom Software</b>	Build From Source
3-Axis Accelerometer s/w driver	Kernel Configuration
3-Axis Gyroscope s/w driver	Software Maintenance Updates
3-Axis Magnetic Sensor s/w driver	Access to FAQs
GPS s/w driver	Access to on-line documentation
Temperature Sensor s/w driver	Technical Support (Phone, Email)
Web Based GUI	
Web Server and Web pages	

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### Ordering Information

Description	GrayFox 3500 Sensor Development Kit Software Subscription and Support
Availability	Now
Price	\$4,995 for use in a single project/product. \$7,995 for use in a single facility/multi-projects/products. Or, Contact Alico Systems Sales for details.

In addition to the source code for custom software and kernels, GrayFox 3500 Software Subscription and Support also includes a 12 months of technical support and software updates.

### Kinetic 3500 FPGA OMAP Sensor Development Kit

GrayFox 3500 Software Subscription and Support is designed specifically for Alico Kinetic 3500 SDK. For more information and price on Alico Kinetic 3500 SDK, please contact sales@alicosystems.com or by telephone (310) 781-9555.

### About Alico Systems, Inc.

Alico Systems, Inc. is an advanced technology business specialized in the design and development of commercial and military network communication systems, especially wireless networking and SATCOM-On-The-Move products. Our core competencies include communication systems architecture, phased array antenna design, RF design, digital microprocessor and FPGA design, RTOS firmware design, inertial navigation systems and FPGA OMAP SDK. For more information about Alico and its products, please visit us on the web at <http://www.alicosystems.com>.

Specifications subject to change without notice:

### Alico Systems Incorporated

2988 Columbia Street  
Torrance, CA 90503-3806  
Telephone (310) 781-9555; Facsimile (310) 782-1143

