

Features

- ◆ Boot
 - ◆ U-boot 1.3.3 or above
 - ◆ Boot Linux from SD card, NAND Flash or Ethernet
 - ◆ Image update from SD card or network
- ◆ Kernel and drivers
 - ◆ Kernel Version 2.6.32 or above
 - ◆ File system Format for ROM/CRAM/EXT2/EXT3/FAT/NFS/JFFS2/UBIFS
 - ◆ Software Drivers for Serial, RTC, NET, NAND, MMD/SD, USB and USB OTG
- ◆ Production quality 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 diagnostic and configuration
 - ◆ Web Server and web page code examples
- ◆ 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
- ◆ Web server and code examples for 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 code for Alico Kinetic 3500 FPGA OMAP SDK and related documentation.
- ◆ Software User 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 about open source software, Alico GrayFox 3500 Software Subscription and Support product is the answer. GrayFox 3500 provides production quality 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 directly from the command line options or can be integrated into the custom environment by calling 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 and utilities for customize web page creation. The web server has the capabilities for changing web pages dynamically and maintaining dynamic objects. It is a simple task to replace the GrayFox 3500 web server with other well-known web servers (e.g. Apache), if desired. 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, GPS as well as operating systems related information (i.e. memory and CPU utilizations, disk usage). 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	
Software			
Base Support Package			
Boot			
U-boot 1.3.3 or above	Bin	Src	
Boot Linux from SD card, NAND Flash or Ethernet	Bin	Src	
Kernel and Drivers			
Linux Kernel 2.6.32 and above	Bin	Src	
File system Format - ROM/CRAM/EXT2/EXT3/FAT/NFS/JFFS2/UBIFS	Bin	Src	
S/W drivers for Serial, RTC, NET, NAND, MMD/SD, USB and USB OTG	Bin	Src	
Custom Software			
3-Axis Accelerometer s/w driver	Bin	Src	
3-Axis Gyroscope s/w driver	Bin	Src	
3-Axis Magnetic Sensor s/w driver	Bin	Src	
GPS s/w driver	Bin	Src	
Temperature Sensor s/w driver	Bin	Src	
Web Based GUI	Bin	Src	
Web Server and example Web pages	Bin	Src	
OMAP Test Utilities			
Pin Mux Configuration	Bin	Src	
Register Read and Write	Bin	Src	
GPIO Read and Write	Bin	Src	
Verification S/W for NEON Coprocessor	Bin	Src	
Device Driver Test Suite	Bin	Src	
FPGA Configuration	Bin	Src	
Additional Support (12 months)			
Build Environment			
Build From Source			
Kernel Configuration			
Software Maintenance Updates			
Access to FAQs			
Access to on-line documentation			
Technical Support (Phone, Email)			

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Ordering Information

Description	Kinetic 3500 Sensor Development Kit Software Subscription and Support
Model	GrayFox 3500
Availability	Q1 2012
Price	Contact us at sales@alicosystems.com or by telephone (310) 781-9555

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:

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