Luminary Micro - EKI-LM3S6965 - Evaluation Kit

Product Overview:

The Stellaris LM3S6965 Evaluation Kit provides a compact and versatile evaluation platform for Ethernet enabled Stellaris ARM® Cortex™-M3-based microcontrollers. Each board has an In-Circuit Debug Interface (ICDI) that provides hardware debugging functionality not only for the on-board Stellaris devices, but also for any Stellaris microcontroller-based target board. The evaluation kits contain all cables, software, and documentation needed to develop and run applications for Stellaris microcontrollers easily and quickly.

Kit Contents:

The EKI-LM3S6965 Evaluation Kit contains the hardware essentials you will need to use the Kit. The items in the Evaluation Kit and their use are as follows.

- LM3S6965 evaluation board (EVB)
- Retracting Ethernet cable, USB cable, and 20-pin JTAG/SWD cable
- CD containing:
    - Complete documentation
    - Evaluation version of the software tools
    - Quick start guide and source code
    - StellarisWare® Peripheral Driver Library and example source code
- An evaluation version of one of the following:
    - Keil™ Real View® Microcontroller Development Kit (MDK-ARM)
    - IAR Embedded Workbench
    - Code Sourcery GCC development tools
    - Code Red Technologies Code Suite development tools

Key Features:

- Stellaris LM3S6965 microcontroller with fully-integrated 10/100 embedded Ethernet controller

- Simple setup: USB cable provides serial communication, debugging, and power
- OLED graphics display
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker
- LM3S6965 I/O available on labeled break-out pads
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- USB interface for debugging and power supply
- MicroSD card slot

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EKI-LM3S6965	Luminary Micro	1712247	45P3405

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LM3S6965	Luminary Micro	Stellaris® LM3S6965 Microcontroller	1494151	45P3687
FT2232D/TR	FTDI	FT2232D Dual USB UART/FIFO I.C.	1615843	14N9294
LP8345CDT-1.8/NOPB	National Semiconductor	Low Dropout, Low IQ, 500mA CMOS Linear Regulator	NA	41K8156
CAT93C46VI-GT3	On Semiconductor	1 kb Microwire Serial EEPROM	1718151	08R5453

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
EKC-LM3S6965	Luminary Micro	EKC-LM3S6965 Ethernet Evaluation Kit for CodeSourcery G++	LM3S6965	1494126	45P3399
EKT-LM3S6965	Luminary Micro	EKT-LM3S6965 Ethernet Evaluation Kit for Code Red	LM3S6965	1712253	45P3417

		Technologies Red Suite			
EKK- LM3S6965	Luminary Micro	EKK-LM3S6965 Ethernet Evaluation Kit for Keil™ Real View®	LM3S6965	1494128	45P3411
EKI-LM3S9B92	Luminary Micro	EKI-LM3S9B92 Ethernet+USB-OTG Evaluation Kit for IAR Systems	LM3S9B92	1743613	10R6850
EKI-LM3S9B90	Luminary Micro	EKK-LM3S9B90 Ethernet+USB-OTG Evaluation Kit for IAR Systems	LM3S9B90	1715833	24R6152
DK-LM3S9B96	Luminary Micro	DK-LM3S9B96 Development Kit	LM3S9B96	1712243	NA

Document List:

Datasheets:

Part Number	Description	Size
LM3S6965	Stellaris® LM3S6965 Microcontroller	6.81MB
FT2232D	FT2232D Dual USB UART/FIFO I.C.	1.0MB
LP8345	Low Dropout, Low IQ, 500mA CMOS Linear Regulator	665KB
CAT93C46	1 kb Microwire Serial EEPROM	149KB

Application Notes:

File Name	Size
AN01237 Programming the On-Chip Flash Memory in a Stellaris Microcontroller	95KB
AN01240 Clocking Options for Stellaris Family Microcontrollers	107KB
AN01241 Using a Stellaris Microcontroller as an IO Processor	138KB
AN01242 Using the Stellaris Serial Flash Loader	118KB
AN01243 Adding 32 KB of Serial SRAM to a Stellaris Microcontroller	110KB
AN01244 Evaluating PeerSec Networks'MatrixSSL on a Stellaris Microcontroller	365KB
AN01248 Using the Stellaris Boot Loader	88KB
AN01249 Upgrading to Luminary Micro's Stellaris Microcontrollers from Microchip's PIC Microcontrollers	124KB
AN01250 Migrating to the New Members of the Stellaris Family of Microcontrollers	206KB

AN01257 Flash Protection for Stellaris Microcontrollers	95KB
AN01260 Using the Stellaris Ethernet Controller with Micro IP (uIP)	73KB
AN01261 Using the Stellaris Ethernet Controller with Lightweight IP (lwIP)	72KB
AN01265 Optimizing Code Performance and Size for Stellaris Microcontrollers	174KB
AN01266 Serial-to-Ethernet Converter for Stellaris Microcontrollers	101KB
AN01267 Using Stellaris Microcontrollers Internal Flash Memory to Emulate EEPROM	92KB
AN01270 Software UART for Stellaris Microcontrollers	119KB
AN01271 USB Certification for Stellaris Microcontroller-based USB Peripherals and Embedded Host Systems	3.9MB
AN01273 Application Update Using the USB Device Firmware Upgrade Class	190KB
AN01274 Configuring Stellaris Microcontrollers with Pin Multiplexing	153KB

Hardware & Software:

File Name	Size
CMX_Eval_for_CortexM3-Ethernet_and_IAR_tools	4.07MB
embos_cm3_iar_trial_v340	2.03MB
FreeRTOS_V4.5.0_LM3Sxxxx_IAR	831KB
LMFlashProgrammer_819	5.62MB
Micrium-LuminaryMicro-uCOS-II-TCPIP-EK-LM3S6965	2.68MB

Others Resources:

File Name	Size
WP - The Future of the MCU Market	784KB
WP - An Introduction to the ARM Cortex-M3 Processor	346KB
WP - Motor Control Using a 32-bit Cortex-M3 MCU	493KB
WP - 32 BITS for a Buck	301KB
WP - Transitioning to Cortex-M3 based MCUs	476KB
WP - Moving_to_CortexM-3	514KB
Evaluation Kit Quickstart IAR Tools	328KB
LM3S6965 Evaluation Kit Readme First	164KB
Stellaris® LM3S2965 Evaluation Board and LM3S6965 Evaluation Board User's Manual Documentation Addendum	30KB
ProductBrief_6965_EvalKit	82KB