



Luminary Micro - EKI-LM3S8962 - Evaluation Kit

Product Overview:

The Stellaris LM3S8962 Evaluation Kit provides a compact and versatile evaluation platform for Ethernet + CAN 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-LM3S8962 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.

- LM3S8962 evaluation board (EVB)
- LM3S2110 CAN device board
- USB cable
- 20-pin JTAG/SWD target cable
- 10-pin CAN cable
- CD containing:
 - A supported version of one of the following:
 - ❖ Keil™ RealView® Microcontroller Development Kit (MDK-ARM)
 - ❖ IAR Embedded Workbench
 - ❖ Code Sourcery GCC development tools
 - ❖ Code Red Technologies development tools
- Complete documentation
- Quick start guide
- Quick start source code
- Stellaris® Firmware Development Package with example source code

Key Features:

- Stellaris LM3S8962 microcontroller with fully-integrated 10/100 embedded Ethernet controller and CAN module
- Simple setup; USB cable provides serial communication, debugging, and power
- OLED graphics display with 128 x 96 pixel resolution
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker
- MicroSD card slot
- USB interface for debugging and power supply
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- LM3S8962 I/O available on labeled break-out pads
- Standalone CAN device board using Stellaris LM3S2110 microcontroller

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EKI-LM3S8962	Luminary Micro	1712249	45P3407

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LM3S8962-IQC50	Luminary Micro	Stellaris® LM3S8962 Microcontroller	1564404	45P3725
SN65HVD1050D	TI	EMC OPTIMIZED CAN TRANSCEIVER	1220984	70K4439
FT2232D/TR	FTDI	FT2232D Dual USB UART/FIFO I.C.	1615843	14N9294
LP8345CLD-3.3/NOPB	NS	Low Dropout, Low IQ, 500mA CMOS Linear Regulator	1685746	41K8167
CAT93C46VI-GT3	On Semiconductor	1 kb Microwire Serial EEPROM	1718151	08R5453
FAN5331SX	Fairchild Semiconductor	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	1262717	60J0504

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
EKC-LM3S8962	Luminary Micro	EKC-LM3S8962 Evaluation Kit for CodeSourcery G++	LM3S8962	1712245	45P3401
EKT-LM3S8962	Luminary Micro	EKT-LM3S8962 Evaluation Kit for Code Red Technologies Red Suite	LM3S8962	1712255	45P3419
EKK-LM3S8962	Luminary Micro	EKK-LM3S8962 Evaluation Kit for Keil™ Real View®	LM3S8962	1551844	45P3413

Document List:

Datasheets:

Part Number	Description	Size
LM3S8962	Stellaris® LM3S8962 Microcontroller	7.22MB
LM3S2110	Stellaris® LM3S2110 Microcontroller	5.80MB
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
FAN5331	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch	583KB
SN65HVD1050	EMC OPTIMIZED CAN TRANSCEIVER	598KB

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

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
NicheLite demo for EKx-LM3S8962	2.68MB
LM3S8962 Evaluation Kit for IAR CD	427MB
GUI and command line flash programmer	5.49MB
EK-LM3S8962 Firmware Development Package	14.5MB

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
LM3S8962 Evaluation Kit Readme First	164KB
ProductBrief_8962_EvalKit	82KB