



## Luminary Micro - EKC- LM3S8962 - Evaluation Board

### 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. The EKC-LM3S8962 is the Evaluation Kit for Code Sourcery's G++



### 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™ Real View® 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
EKC-LM3S8962	Luminary Micro	1712245	45P3401

### **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/NO PB	NS	Low Dropout, Low IQ, 500mA CMOS Linear Regulator	1685746	41K8167
CAT93C46VI-GT3	On Semiconductor	1 kb Microwire Serial EEPROM	1718151	08R5453
FAN5331SX	Fairchild	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
EKI-LM3S8962	Luminary Micro	Evaluation Kit for IAR Embedded Workbench	LM3S8962	1712249	45P3407
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	<a href="#">Stellaris® LM3S8962 Microcontroller</a>	7.22MB
LM3S2110	<a href="#">Stellaris® LM3S2110 Microcontroller</a>	5.80MB
FT2232D	<a href="#">FT2232D Dual USB UART/FIFO I.C.</a>	1.0MB
LP8345	<a href="#">Low Dropout, Low IQ, 500mA CMOS Linear Regulator</a>	665KB
CAT93C46	<a href="#">1 kb Microwire Serial EEPROM</a>	149KB
FAN5331	<a href="#">High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch</a>	583KB
SN65HVD1050	<a href="#">EMC OPTIMIZED CAN TRANSCEIVER</a>	598KB

## Application Notes:

File Name	Size
<a href="#">AN01237 Programming the On-Chip Flash Memory in a Stellaris Microcontroller</a>	95KB
<a href="#">AN01240 Clocking Options for Stellaris Family Microcontrollers</a>	107KB
<a href="#">AN01241 Using a Stellaris Microcontroller as an IO Processor</a>	138KB
<a href="#">AN01242 Using the Stellaris Serial Flash Loader</a>	118KB
<a href="#">AN01243 Adding 32 KB of Serial SRAM to a Stellaris Microcontroller</a>	110KB
<a href="#">AN01244 Evaluating PeerSec Networks' MatrixSSL on a Stellaris Microcontroller</a>	365KB
<a href="#">AN01248 Using the Stellaris Boot Loader</a>	88KB

<a href="#">AN01249 Upgrading to Luminary Micro's Stellaris Microcontrollers from Microchip's PIC Microcontrollers</a>	124KB
<a href="#">AN01250 Migrating to the New Members of the Stellaris Family of Microcontrollers</a>	206KB
<a href="#">AN01257 Flash Protection for Stellaris Microcontrollers</a>	95KB
<a href="#">AN01260 Using the Stellaris Ethernet Controller with Micro IP (uIP)</a>	73KB
<a href="#">AN01261 Using the Stellaris Ethernet Controller with Lightweight IP (lwIP)</a>	72KB
<a href="#">AN01265 Optimizing Code Performance and Size for Stellaris Microcontrollers</a>	174KB
<a href="#">AN01266 Serial-to-Ethernet Converter for Stellaris Microcontrollers</a>	101KB
<a href="#">AN01267 Using Stellaris Microcontrollers Internal Flash Memory to Emulate EEPROM</a>	92KB
<a href="#">AN01270 Software UART for Stellaris Microcontrollers</a>	119KB
<a href="#">AN01271 USB Certification for Stellaris Microcontroller-based USB Peripherals and Embedded Host Systems</a>	3.9MB
<a href="#">AN01273 Application Update Using the USB Device Firmware Upgrade Class</a>	190KB

## Hardware & Software:

File Name	Size
<a href="#">EKC-LM3S8962-CD-480</a>	-
<a href="#">LMFlashProgrammer-819</a>	-
<a href="#">SW-EK-LM3S8962-5228</a>	-
<a href="#">FreeRTOS demo for EKK-LM3Sxxxx</a>	-
<a href="#">NicheLite demo for EKx-LM3S8962</a>	-
<a href="#">CMX_Eval_for_CortexM3-Ethernet_and_IAR_tools</a>	4.07MB
<a href="#">embos_cm3_iar_trial_v340</a>	2.03MB
<a href="#">FreeRTOS_V4.5.0_LM3Sxxxx_IAR</a>	831KB
<a href="#">NicheLite demo for EKx-LM3S8962</a>	2.68MB
<a href="#">LM3S8962 Evaluation Kit for IAR CD</a>	427MB
<a href="#">GUI and command line flash programmer</a>	5.49MB
<a href="#">EK-LM3S8962 Firmware Development Package</a>	14.5MB

## Others Resources:

File Name	Size
<a href="#">WP - The Future of the MCU Market</a>	784KB
<a href="#">WP - An Introduction to the ARM Cortex-M3 Processor</a>	346KB
<a href="#">WP - Motor Control Using a 32-bit Cortex-M3 MCU</a>	493KB
<a href="#">WP - 32 BITS for a Buck</a>	301KB
<a href="#">WP - Transitioning to Cortex-M3 based MCUs</a>	476KB
<a href="#">WP - Moving to CortexM-3</a>	514KB
<a href="#">Evaluation Kit Quick start IAR Tools</a>	328KB

<a href="#">LM3S8962 Evaluation Kit Readme First</a>	164KB
<a href="#">ProductBrief_8962_EvalKit</a>	82KB

