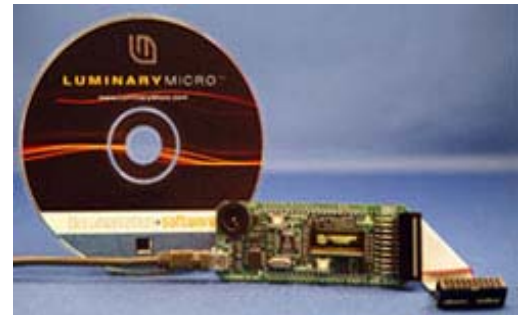**LUMINARY MICRO**

Luminary Micro - EKC-LM3S811 - Evaluation Board

Product Overview:

The Stellaris® LM3S811 Evaluation Board is both a compact and versatile evaluation platform for the Stellaris LM3S811 ARM® Cortex™-M3-based microcontroller, and an In-Circuit Debug Interface (ICDI) for any Stellaris microcontroller-based target board. The EVB allows users to evaluate, prototype, and create application-specific designs. The EKC-LM3S811 evaluation kit contains everything needed to develop and run applications for Stellaris microcontrollers.

Kit Contents:

The evaluation kit contains everything needed to develop and run applications for Stellaris microcontrollers including:

- LM3S811 Evaluation Board (EVB)
- USB cable
- 20-pin JTAG/SWD target cable
- CD containing
  - Keil™ Real View® Microcontroller Development Kit RVMDK (16 KB limited)
  - Complete documentation
  - Quick start guide
  - Quick start source code
  - Driver Lib and example source code

Key Features:

- Stellaris® LM3S811 microcontroller
- OLED graphics display with 96 x 16 pixel resolution
- User-programmable pushbutton and LED
- Reset pushbutton and power indicator LED
- Thumbwheel potentiometer for driving an Analog-to-Digital Converter (ADC) input
- Standard ARM® 20-pin JTAG debug connector for use as an In-Circuit Debug Interface
- I/O signal break-out pads for hardware prototyping

- UART0 accessible through a USB Virtual COM Port (VCP)
- USB interface for all communication and power
- Evaluation Kit CD containing:

  - Complete documentation
  - StellarisWare® Peripheral Driver Library and example source code
  - A supported evaluation version of one of the following:

- Keil™ Real View® Microcontroller Development Kit (MDK-ARM)
- IAR Embedded Workbench® development tools
- Code Sourcery GCC development tools
- Code Red Technologies Red Suite
- Code Composer Studio™ IDE

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EKC-LM3S811	Luminary Micro	1712244	45P3400

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
LM3S811-IQN50-C2	Luminary Micro	ARM® Cortex™-M3 Microcontroller	1736178	45P3695
FT2232D/TR	FTDI	Dual USB UART/FIFO IC	1615843	14N9294
CAT93C46VI-G	Catalyst Semiconductor	EEPROM, 1K, 64X16,	1631146	06R1436
TPS73633DBVTG4	TI	Single Output LDO, 400-mA, Fixed (3.3 V), Low-Noise	1207346	62M0776
TPS61041DBVR	TI	Switch Boost Converter in SOT-23 for LCD and White LED Applications	1564963	36K7661
SN74LVC125AD	TI	Quadruple Bus Buffer Gate With 3-State Output	1102975	94B6303

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
EKK-LM3S811	Luminary Micro	EVK for Keil™ Real View®	LM3S881	1743676	45P3412
EKI-LM3S811	Luminary Micro	EVK for IAR Embedded Workbench	LM3S881	1712248	45P3406
EKT-LM3S811	Luminary Micro	EVK for Code Red Technologies tools	LM3S881	1712254	45P3418

Document List:

Datasheets:

Part Number	Description	Size
LM3S811-IQN50-C2	ARM® Cortex™-M3 Microcontroller	-
FT2232D/TR	Dual USB UART/FIFO IC	-
CAT93C46VI-G	EEPROM, 1K, 64X16,	148K
TPS73633	Single Output LDO, 400-mA, Fixed (3.3 V), Low-Noise	915K
TPS61041DBVR	Switch Boost Converter in SOT-23 for LCD and White LED Applications	746K
SN74LVC125AD	Quadruple Bus Buffer Gate With 3-State Output	737K

Application Notes:

File Name	Size
Programming the On-Chip Flash Memory in a Stellaris Microcontroller	-
Clocking options for Stellaris Family Microcontrollers	-
Using a Stellaris Microcontroller as an I/O Processor	-
Adding 32KB of Serial SRAM to a Stellaris Microcontroller	-
Using the Stellaris Microcontroller Analog-to-Digital Converter	-
Upgrading to Luminary Micro's Stellaris Microcontrollers from Microchip's PIC Microcontrollers	-
Flash Protection for Stellaris® Microcontrollers	-
Optimizing Code Performance and Size for Stellaris Microcontrollers	-
FTDI Drivers Installation guide for Windows 7	639K
Aliasing VCP Baud Rates	196K
How COM Ports Are Allocated On Driver Installation	382K
D2XX Access Using PERL Interface PERL 5.0 Programmers Guide	500K

FTDI Drivers Installation guide for MAC OSX	467K
LDO PSRR Measurement Simplified	140K
Taming linear-regulator inrush currents	706K

Hardware & Software:

File Name	Size
Quick start Keil Tools-1.7	105K
LMI_CE_DoC-02	15K
RMF-EK-LM3S811-1.1	137K
EKK-LM3S811-CD-466	-
Salvo Lite 4.0.0 for EKK-LM3S811	3.5M