Smart Grid Infrastructure Evaluation Module (SGI EVM) Status: ACTIVE

TMDSSGI-EVML138

Description/Features Technical Documents Support & Community Order Now

Key Document

Smart Grid Solutions Brochure (Rev. G) (PDF 1390 KB)
19 Jan 2012 7,093views

View all technical documents (7)

Description

Smart Grid Infrastructure (SGI) Evaluation Module is based on OMAPL138/AM1808 as the main processor and has interface capability with C2000 PLC and Low Power RF modules which are sold separately. This evaluation module is a development platform for smart grid infrastructure applications including data concentrator, power analytics, quality monitoring, circuit breakers, power protection, substation and power automation.

Features

Three-phase power system: Three current and voltage inputs plus neutral
Isolation to prevent damage from high voltages and currents
OMAP™-L138 processor: Integra™ DSP + ARM® for control, communications and signal processing. Full Linux® BSP supported by TI
High-performance AIC provides 16-bit sampling at low SNR
Supports control and data communications: Ethernet, PLC, <1-GHz RF, RS232, CAN
Designed with best practices for high-speed systems: Good reference design for passing ESD system tests

What's Included

Ethernet Cable
Evaluation Board
Power Supply
Power Supply Cable
SD Card (EVM Demo)
Serial port cable

TMDSSGI-EVML138 board

Order Now

Part Number	Texas Instruments	Status	Price (US$)	Host	OS	Current Version	Version Date
TMDSSGI-EVML138: Smart Grid Infrastructure Evaluation Module (SGI EVM)	TI eStore	ACTIVE		PC	Linux, Microsoft Windows XP, Vista & 7	v1.0	24 NOV 2011

Technical Documents

TI Wikis (4)

Title	Date
Integra Processors Wiki -- In-depth technical and "how-to" articles, FAQs, etc.	24 Mar 2011
Development Tools, Operating Systems and Embedded Software Wikis - for TI Embedded Processors	08 Aug 2011
Building Linux kernel for SGI EVM	17 Nov 2011
SGI EVM Hardware Manual	17 Nov 2011

More Literature (3)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
Smart Grid Solutions Brochure (Rev. G)		PDF	1390	19 Jan 2012	7,093	
Smart Grid Tools		PDF	942	17 Jan 2012	393	
TI Data Concentrator Solution (Rev. A)		PDF	1131	11 Nov 2011	1,778	

Related Products

SGI EVM Development Package (v2.0 for TMDSSGI-EVML138) – Linux Installer (zip 175055 KB)
30 Jan 2012 1 view

SGI EVM Development Package (v2.0 for TMDSSGI-EVML138) – Windows Installer (zip 175156 KB)
30 Jan 2012 1 view

Part Number	Name	Product Family
AM1808	Sitara ARM Microprocessor (MPU)	Sitara ARM Cortex-A8 and ARM9 Microprocessors
OMAP-L138	C6-Integra DSP+ARM Processor	C6-Integra DSP+ARM Processor

Support and Community

Blogs

Develop on the next generation MSP430 for single-phase metering applications

The MSP430F673x/F672x series is the first MSP430 SoC to target utility metering with a 24-bit Sigma-delta converter, industry's largest 320-segment LCD controller and battery backup system. Did we say industry's largest segmented LCD controller...

Posted to Smart Grid Blog on 25 Jan 2012
smart grid, microcontroller, MSP430, MCU, microcontrollers, 430, Software, development tools, single-phase, MSP 430

Develop on the next generation MSP430 for single-phase metering applications

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Posted to The Official MSP430 Blog on 24 Jan 2012
MCU, Microcontroller, MSP430, MSP 430, 430, Software, development tools, microcontrollers, smart grid, single-phase

C3P-Ho-Ho-Ho: MSP430 powers a holiday sound and light show

Check out this post from our friends over at hackaday.com. It seems Zach, a Hackaday hobbyist and MSP430 fan, figured out a way to program an MSP430 to operate the lights on his Christmas tree in response to the notes of the "Star Wars Main Theme"...

Posted to The Official MSP430 Blog on 22 Dec 2011
MSP430, development tools, msp430f2012

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Customer Tags

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