Smart Grid Infrastructure Evaluation Module (SGI EVM)

(ACTIVE) TMDSSGI-EVML138

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Key Document

- Smart Grid Solutions Guide (Rev. O) (PDF 2005 KB)
  18 Dec 2014 11,602 views

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TMDSSGI-EVML138 board

View available purchase options for designs kits, evaluation modules and/or the bill of materials.

$695.00(USD)

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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

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Part Number	Buy from Texas Instruments or Third Party	Status	Host	OS	Current Version	Version Date
TMDSSGI-EVML138: Smart Grid Infrastructure Evaluation Module (SGI EVM)	$695.00(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	ACTIVE	Sun Spark	UNIX	v1.0	24 NOV 2011

TI's Standard Terms and Conditions for Evaluation Modules apply.

TI Devices (2)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
AM1808	Sitara Processor	ARM® Core	Sample & Buy	View Design Kits & Evaluation Modules
OMAP-L138	C6000 DSP+ARM Processor	DSP+ARM®	Sample & Buy	Not Available

CAD/CAE symbols

Part #	Package | Pins	CAD File [.bxl]	STEP Model [.stp]
AM1808	NFBGA (ZCE) | 361	Download	-
	NFBGA (ZWT) | 361	Download	-
OMAP-L138	NFBGA (ZCE) | 361	Download	-
	NFBGA (ZWT) | 361	Download	-

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software ZIP: 62MB

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

User guides (1)

*This is not an TI official document.

Title	Date	Type
SGI EVM Hardware Manual	17 Nov 2011	Wiki*

More literature (1)

*This is not an TI official document.

Title	Date	Type
Building Linux kernel for SGI EVM	17 Nov 2011	Wiki*

Application Notes (2)

Title	Abstract	Type	Size [KB]	Date	Views
Running the Metrology Demo on the SGI EVM	Read Abstract	PDF	28	27 Jun 2012	139
SGI EVM Software Manual	Read Abstract	PDF	28	27 Jun 2012	161

User Guides (1)

Title	Abstract	Type	Size [KB]	Date	Views
SGI EVM Hardware Manual	Read Abstract	PDF	174	02 Feb 2012	92

Solution Guides (1)

Title	Abstract	Type	Size [KB]	Date	Views	TI Recommends
Smart Grid Solutions Guide (Rev. O)		PDF	2005	18 Dec 2014	11,602	✓

White Papers (1)

Title	Abstract	Type	Size [KB]	Date	Views
Data concentrators: The core of energy and data management		PDF	1498	16 Sep 2013	1,583

More Literature (1)

Title	Abstract	Type	Size [KB]	Date	Views
TI Data Concentrator System Solution (Rev. C)		PDF	164	27 Aug 2013	1,458

Related Tools & Software

Software (2)

SGI EVM Development Package (v2.0 for TMDSSGI-EVML138) - Linux Installer
(ZIP, 175055 KB) 38 views, 30 Jan 2012

SGI EVM Development Package (v2.0 for TMDSSGI-EVML138) - Windows Installer
(ZIP, 175156 KB) 45 views, 30 Jan 2012

Support & Community

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