PROFIBUS Communications Development Platform

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Use the TMDSICE3359 board for PROFIBUS communication

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Description

Targeted for PROFIBUS slave communications, this development platform allows designers to implement PROFIBUS communications standards in a broad range of industrial automation equipment. It enables low foot print designs in applications such as industrial automation, factory automation or industrial communication with minimal external components and with best in class low power performance.

Features

- AM335x ARM Cortex-A8 processor-based design enables 40% system BOM savings by eliminating external ASIC/FPGA
- Access to other peripherals and interfaces for a scalable HMI, PLC and I/O solution
- PROFIBUS slave certified by Siemens authorized Test Labs
- Pre-tested protocol stack for evaluation
- Free board support package and industrial software development kit from TI
- Support other industrial communications with the same hardware (e.g., EtherCAT, Profinet, Ethernet/IP and more)
- Production Ready development platform sub-system which includes schematics, BOM, user guides, application notes, white paper, software, demos and more

Getting Started - To get started on development review the literature below, order the development platform and download the latest SYS/BIOS Industrial Software Development Kit.

Schematic/Block Diagram

Quickly understand overall system functionality.

Download Schematic

Test Data

Get results faster with test and simulation data that's been verified.

Download Test Data

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

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Part Number	Buy from Texas Instruments or Third Party	Status	Host	OS	Current Version	Version Date
TIDEP0002: PROFIBUS Communications Development Platform	Order Online	ACTIVE	PC	Microsoft Windows 2000/XP	v1.0	25 JUNE 2013

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

TI Devices (6)

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
AM3352	Sitara Processor	ARM Cortex-A8 Core	Sample & Buy	View Design Kits & Evaluation Modules
AM3354	Sitara Processor	ARM Cortex-A8 Core	Sample & Buy	View Design Kits & Evaluation Modules
AM3356	Sitara Processor	ARM Cortex-A8 Core	Sample & Buy	View Design Kits & Evaluation Modules

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
AM3352	NFBGA (ZCE)| 298	Download	-
	NFBGA (ZCZ)| 324	Download	-
AM3354	NFBGA (ZCE)| 298	Download	-
	NFBGA (ZCZ)| 324	Download	-
AM3356	NFBGA (ZCZ)| 324	Download	-
AM3357	NFBGA (ZCZ)| 324	Download	-
AM3358	NFBGA (ZCE)| 298	Download	-
	NFBGA (ZCZ)| 324	Download	-
AM3359	NFBGA (ZCZ)| 324	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.

- read more -

Technical Documents

Application Notes (1)

Title	Abstract	Type	Size (KB)	Date	Views
Sitara Evaluation Module (EVM) PROFIBUS Test Data		PDF	216	23 Sep 2013	148

White Papers (1)

Title	Abstract	Type	Size (KB)	Date	Views
Profibus on AM335x and AM1810 Sitara ARM Microprocessor White Paper (Rev. A)		PDF	2679	17 Nov 2011	1,366

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
AM3359 Industrial Communications Engine (ICE) Bill of Materials (BOM) (Rev. A)		ZIP	37	03 Sep 2014	718
Industrial Communications Engine (ICE) PCB Layout (Rev. A)		ZIP	3016	17 Jan 2014	1,348
AM3359 Industrial Communications Engine (ICE) Schematic		ZIP	768	09 Jan 2014	3,327

Related Tools & Software

Design Kits & Evaluation Modules (1)

Name	Part Number	Tool Type
AM3359 Industrial Communications Engine	TMDSICE3359	Development Kits

Software (1)

Name	Part Number	Software Type
SYS/BIOS Industrial Software Development Kit (SDK) for Sitara™ Processors	SYSBIOSSDK-IND-SITARA	Software Development Kits (SDK)

Support & Community

TI E2E™ community

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- AM35x, AM37x Cortex-A8 Processors Forum
- AM335x Cortex-A8 Processors Forum
- OMAP-L13x, AM1x and C674x Processors Forum

Wikis

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