Small Graphical eInk Display

(ACTIVE) TIDM-LPBP-EPAPER

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Description

This TI Reference design enables the development of applications for an ePaper display solution. The EPD extension board supports driving PDI's 1.44, 2, and 2.7 inch E-Paper display (EPD) modules. These displays are typically used in a small dynamic signage in stores for barcodes. Due to low power characteristic of this BoosterPack it is excellent for data-logging applications, outdoor displays, and any other ultra-low power usages.

Features

- Supports driving 1.44", 2", or 2.7" EPD Panel
- On board 8M bits serial flash memory and temperature sensor
- VCC Input voltage is available from 10V to 3V vPixel Number: 264x176
- Pixel Pitch: 0.217 x 0.217 (117 dpi)

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

$9.99 - 24.00(USD)

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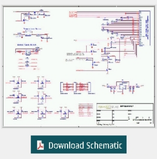
Schematic/Block Diagram

Quickly understand overall system functionality.



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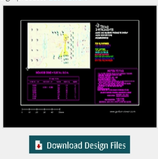

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Bill of Materials (BOM)

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	Buy from Authorized Distributor	Status
TI-EPD-BOOSTERPACK: ePaper Display BoosterPack	$24.00(USD) Order Online	Not Available	ACTIVE
MSP-EXP430G2: MSP430 LaunchPad Value Line Development kit	$9.99(USD) In Stock Typically Ships in 1 to 3 Business Days Buy from TI	Pricing may vary. Buy from distributor	ACTIVE
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TI Devices (4)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
MSP430G2553	MSP430G2x53, MSP430G2x13 Mixed Signal Microcontroller	Ultra-low Power	Sample & Buy	View Design Kits & Evaluation Modules
TPD2E001	Low-Capacitance 2-Channel +/-15 kV ESD-Protection Array for High-Speed Data	ESD Protection	Sample & Buy	View Design Kits & Evaluation

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CAD/CAE symbols

Part #	Package | Pins	CAD File [.bxl]	STEP Model [.stp]
MSP430G2553	TSSOP (PW) | 20	Download	Download
	TSSOP (PW) | 28	Download	Download
	VQFN (RHB) | 32	Download	-
TPD2E001	SOP (DZD) | 4	Download	-
	SOT (DRL) | 5	Download	-
	WSON (DRS) | 6	Download	-
	USON (DRY) | 6	Download	-
TPS77301	VSSOP (DGK) | 8	Download	Download
TUSB3410	VQFN (RHB) | 32	Download	-
	LQFP (VF) | 32	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

Third party documents (1)

Title	Date	Type
TI EPD BoosterPack (Extension Kit) by Pervasive Displays	16 Apr 2014	

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
MSP-EXP430G2 LaunchPad Evaluation Kit User's Guide (Rev. E)		PDF	886	06 Mar 2014	11,780

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
Small Graphical eInk Display Gerber Design Files		ZIP	196	16 Apr 2014	88
Small Graphical eInk Display Schematic		PDF	433	16 Apr 2014	301
Small Graphical eInk Display Bill of Materials		PDF	47	16 Apr 2014	138

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