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DATASHEET

The Mobile & Embedded Systems Experts

DevKit OMAP2430

Complete Development System

Highlights:

- TI OMAP2430 ARM microprocessor
- Production Quality Software – Windows® Embedded CE 6.0
- BSP Source Code available
- Separate CPU/PMIC module increases design flexibility
- Multiple expansion buses streamline hardware prototyping
- Wide open physical layout speeds test and debug
- Expanded technical support packages and custom training available
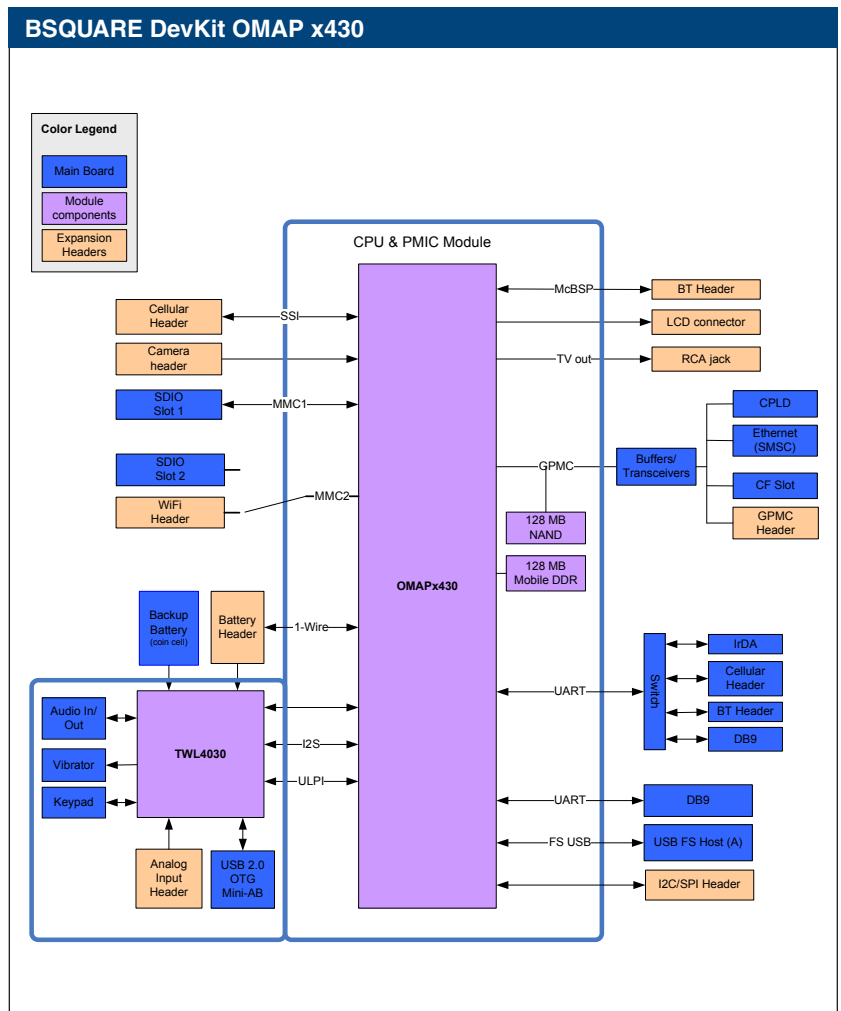- RoHS compliant

BSQUARE DevKit

Overview

BSQUARE's DevKit OMAP2430 is a complete development system accelerating time to market for OEMs building portable handheld, multimedia or embedded devices. The platform features a Texas Instruments OMAP2430 Application Processor with supporting peripheral hardware and a production-quality Windows Embedded BSP.

Production Quality Source Code

For OEMs who want to customize the binary code that ships with the DevKit, BSQUARE offers the production quality source code for the Windows Embedded CE. BSQUARE delivers technical support and training to jumpstart custom development.

Modular Design

The DevKit OMAP2430 is designed with a modular and extensible architecture to increase design flexibility. It offers a separate CPU/PMIC module that features a Texas Instruments TWL4030 System-on-Chip supporting both power management and audio.

BSQUARE DevKit OMAP x430

The integration of the TI TWL4030 PMIC takes advantage of a power management SoC specifically designed for the OMAP processor family. The PMIC allows OEMs to cost-effectively design and build power-efficient mobile devices in a small form factor.

Rapid Prototyping

The DevKit is ideal for early and rapid device prototyping providing a peripheral bus, multiple expansion headers and different connectivity and storage options. Teams can design custom hardware components to prove product concepts in early stage development.

The physical layout enables full hardware access for quick hardware test and debug. As full-scale development efforts begin, the DevKit can be used by the software team to concurrently develop system software and applications.

Product and Service Options

- BSP Source code for Windows CE Embedded 6.0
- DevKit OMAP2430 Hardware Design Kit
- DevKit OMAP2430 JumpStart Service Package
- Expanded Technical Support
- Windows Embedded CE Training – Standard or Custom
- Windows Embedded CE 6.0 Feasibility Study

Contact BSQUARE

For more information or to place your order, call **1-888-820-4500** or **1-425-519-5900** or email sales@bsquare.com or visit the online store at **www.bsquare.com**.

DevKit OMAP2430 – Technical Specs

Hardware Development Platform Specs	
Processor	Texas Instruments OMAP2430 RISC microprocessor (CPU daughter card)
Operating System	Windows CE 6.0 BSP
Memory	128MB DDR DRAM onboard 128MB Micron NAND Flash
Display	10.4" VGA TFT LCD LED backlight, dimming control TV analog output
Input	5-wire resistive touch screen Keypad 5-way navigation
Audio	TI TWL4030 companion chip includes audio codec PCM audio support to cellular header
Ethernet	10/100 Base-T Ethernet controller (SMSC 9115)
USB	1 x High-speed host client or OTG 1 x Full-speed host (hub included to allow connection to cellular header, Bluetooth header, and external connection)
Serial	Full function RS232 port Standard RS232 port (RTS/CTS handshaking only) multiplexed to cellular header, Bluetooth header, IrDA, and external connection)
Memory Card Expansion	Two 4-bit SDIO slots (one switchable w/ WiFi header)
Expansion slots	General purpose expansion header Cellular expansion header (GSM and CDMA) 802.11 WiFi header (SDIO) Bluetooth header Video/camera interface header
Power	TI TWL4030 companion chip includes core power supplies 3.6V Lithium-Ion primary battery header Smart Battery SM-Bus I/F Battery removal logic
Debug	JTAG interface
Keyboard	USB keyboard (optional)
System Level Software and Documentation	
Windows CE 6.0	Production ready binary BSP (Bootloader, OAL and device drivers) CE 6.0 binary OS image (nk.bin)
Hardware Technical Reference	DevKit block diagram, parts placement etc.
Other Documentation	QuickStart Guide and Software Guide
HW Schematics	PDF format
Design Source format*	OrCAD schematic, allegro layout

*Can be purchased separately.

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For more information, please visit **www.bsquare.com**

About BSQUARE:

BSQUARE is a solution provider to the global embedded device community. Our teams collaborate with OEMs at any stage in their device development to bring quality products to market faster. Since 1994, BSQUARE has been a trusted partner to smart device makers worldwide.

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