

DK-EM2-2560B - Development Kit, Bluetooth, Stellaris, 2.4 GHz



DK-EM2-2560B is a Stellaris 2.4-GHz CC2560 Bluetooth Wireless Kit from Texas Instruments provides a robust, high-throughput wireless connection with extended range and power efficiency. The solution combines TI's most popular Stellaris microcontroller development kit (sold separately), a Stellaris EM2 expansion board and TI's proven 7th generation Bluetooth technology with a complete, validated, certified, production-ready CC2560-PAN1323ETU (Easy-to-Use) board. Paired with the DK-LM3S9B96, the DK-EM2-2560B kit provides the full suite of tools an engineer needs to develop and prototype Bluetooth applications with Stellaris. The TI-supplied Bluetopia software profiles included in this kit are provided royalty free and under a free license. Bluetopia is a mature Bluetooth solution that has shipped on millions of enterprise and consumer devices. The CC2560-PAN1323ETU module is a highly-integrated Class 2 HCI device offered by Panasonic using TI's CC2560 Bluetooth 2.1+ EDR Transceiver.

- Supports TI's proven 7th generation Bluetooth technology with extended range & power efficiency
- Full featured evaluation boards for hardware and software prototyping
- SDK includes Bluetooth wireless technology software stack, Serial Port Profile, A2DP and AVRCP
- Included Software Sample Applications
- CC2560-PAN1323ETU provides best-in-class Bluetooth RF performance of +10dBm typical transmit power
- Sample applications and demos provided in source code showing API usage
- Bluetooth + ANT footprint compatible

- Industry's first and broadest implementation of ARM Cortex-M3
- One chip combination of USB, Ethernet MAC and PHY, and CAN
- Evaluation tools allow for extensive prototyping and development of Bluetooth applications

Applications

Communications & Networking, Wireless, Industrial, Medical, Consumer Electronics

Contents

Stellaris DK-LM3S9B96-EM2 Expansion Board, PAN1323 Bluetooth v2.1 + Enhanced Data Rate (EDR) Module, TI EZ430 USB emulator with Bluetooth target board and plastic cover, battery board, 2 AAA batteries, Earbud Headphones, StellarisWare CD

Jacinto 6 Evaluation Module



Description

The Jacinto 6 evaluation module (EVM) is an evaluation platform designed to speed up development efforts and reduce time to market for applications such as infotainment, reconfigurable digital cluster or integrated digital cockpit. To allow scalability and re-use across DRA74x and DRA75x Jacinto Infotainment SoCs, the EVM is based on the Jacinto 6 Ex DRA75x SoC which incorporates a heterogeneous, scalable architecture that includes a mix of two ARM® Cortex®-A15 cores, two ARM Cortex-M4 processing subsystems, each with two ARM Cortex- cores, two C66x Digital Signal Processors (DSPs), a Vision AccelerationPac including two Embedded Vision Engines (EVEs), 2D- and 3D-graphics processing units including Imagination Technologies POWERVR™ SGX544 dual-core and a high-definition image and video accelerator. It also integrates a host of peripherals including multi-camera interfaces (both parallel and serial) for LVDS-based surround view systems, displays, CAN and Gigabit Ethernet AVB.

The main CPU board integrates these key peripherals such as Ethernet or HDMI, while the infotainment application daughter board (JAMR3) and LCD/TS daughter board will complement the CPU board to deliver complete system to jump start your evaluation and application development.

Please note that a **power supply is NOT included** with the Jacinto 6 EVM and needs to be purchased separately. A power supply with the following specs is needed:

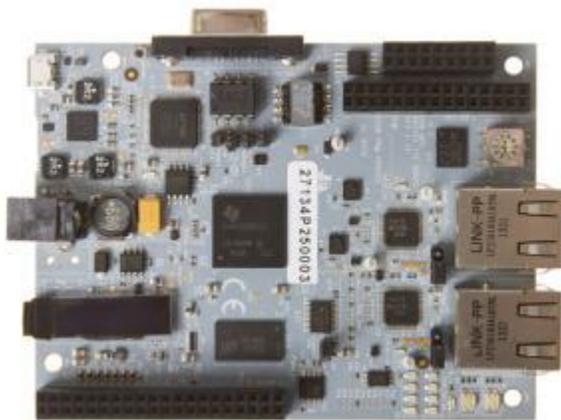
- 12V DC output
- 5A output
- Positive inner and negative outer terminals
- Female barrel with 2.5mm or 2.1mm inner diameter and 5.5mm outer diameter, insertion depth is 8.85mm

Features

Hardware	Software	Connectivity
<ul style="list-style-type: none"> • DRA75x processor • 4GB DDR3L • TPS659039 power management IC 	<ul style="list-style-type: none"> • Linux® • Android™ • StarterWar 	<ul style="list-style-type: none"> • Gigabit Ethernet (2) • MiniPCle • e/mSATA

<ul style="list-style-type: none"> • 4 GB eMMC • 10.1" 1920X1200 capacitive touch screen LCD option • JAMR3 tuner board 	e	<ul style="list-style-type: none"> • Micro SD card • Micro USB 2.0 • USB 3.0 • HDMI • Audio in/out • WiLink™ 8Q connector
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EtherCAT Communications Development Platform



Description

Targeted for EtherCAT slave communications, this development platform allows designers to implement real-time EtherCAT 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

- EtherCAT conformance tested by EtherCAT Technology Group (ETG)
- Free EtherCAT Slave Stack Code (SSC) from Beckhoff available; requires ETG membership (free of charge) and valid EtherCAT Vendor ID.
- Free board support package and industrial software development kit from TI



- Support other industrial communications with the same hardware (e.g., PROFIBUS, 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