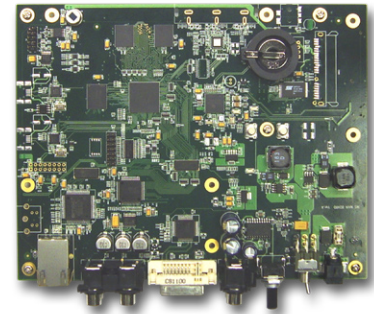


DATASHEET

EMP3503 - High Performance TI OMAP Based ARM Cortex-A8 Processor

EMP3503 comes with the latest Empower Technologies' Linux Embedded OS (LEOs[®]) for OMAP3503 operating software. Its hardware integrates a high-performance ARM[®] Cortex[™]-A8 processor and multimedia acceleration for imaging, video and graphics up to 720p. This media computer, with the most advanced ARM processor, performs as much as 2.8 times over the previous-generation ARM11 core. It provides major technical advantages in video/image/audio encoding/decoding, video analysis, image processing, sound processing, and has the capability of playing video. EMP3503 is designed for low-power high-performance applications, and also enables products to be built in smaller size and lighter weight.

LEOs[®] for EMP3503 will allow you to more easily and quickly develop digital media applications. Application code can be written, with easy access via APIs to the ARM core.



FEATURES

Hardware

- TI OMAP3503 processor with ARM Cortex-A8 (fanless)
- 256MB DDR SDRAM
- 256MB NAND Flash
- Digital DVI-D video out convertible to HDMI with optional adapter cable (display resolution multi-processes 480p, single-process video only 720p)
- Component video out (display resolution multi-processes 480p, single-process video only 720p)
- Analog Composite video out (NTSC/PAL)
- Stereo speaker output or Audio line out (using jumper)
- SD card slot
- 10/100 Ethernet port (RJ45)
- SATA hard drive supported with internal USB to SATA controller
- IR motion sensor
- Real Time clock with coin cell battery backup
- RS232 port
- PCB dimensions: 150mm X 190mm

Options of expansion board (sold separately):

- 1 USB wireless comm port (choice of USB WiFi or 3.5G GSM modem)*
- Up to 8 USB ports for connection to USB RFID readers*

*supported by AC powered USB external hub

Software

- LEOs[®] Linux Embedded OS onboard
- Codecs available (licensing required)
- LEOs[®] Media Player 1.0 Engine (licensing required)

OPERATING SYSTEMS

LEOs[®] for OMAP3

For availability of other supported OS, please contact Sales for details:

- Windows CE
- Android

EMP3503 PACKAGE CONTENTS INCLUDE

- LEOs[®] for EMP3503 operating software pre-loaded
- EMP3503 Single Board Media Computer
- Quick Start Guide
- End User License Agreement

DEVELOPMENT KIT

EMP3503/03-SDK Media Development Platform sold separately



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