



ZMS-05 EVM

Evaluation Module

The **ZMS-05 EVM** provides a complete hardware and software platform for the evaluation and rapid development of a broad range of handheld and embedded products based on the ZMS-05 media rich applications processor.

- Low-cost evaluation and development
- Wide range of I/O's and supported peripherals
- Compact System-on-Module design
- Complete Board Support Package available
- Feature Rich Software Development Kit
- Pre-loaded Applications and Demos

“Quick Start” your development

ZiiLABS

The **ZMS-05 EVM** provides a complete hardware and software platform for the evaluation and development of a broad range of handheld and embedded products based on the ZMS-05 media rich applications processor.

- Typical Applications
- Portable Media and 3D Navigation
- Mobile Internet Devices (MID)
- InternetTV and Digital Media Platforms
- Video Conferencing and Surveillance
- POS and Display Systems
- Media-rich Embedded Devices

At the heart of the ZMS-05 EVM is the System-On-Module (SOM), a design proven integration of the key components of any design including; the ZMS-05, power controller and memory.

The I/O Board hosts the SOM and exposes the connections and peripherals supported by the ZMS-05 processor.

BOARD SUPPORT PACKAGES AND SOFTWARE

The EVM supports a a powerful suite of software development tools, APIs and CODECs that take full advantage of the ZMS-05 processor. For more details see the ZMS SDK Product Brief.

HARDWARE DESIGN KITS

Registered partners can access Hardware Design Kits and Board Support Packages (BSPs) for the ZMS-05 EVM, including; schematics, gerbers and BOMs.

SYSTEM-ON-MODULE (SOM)

- ZMS-05 Processor
 - Media-rich applications processor
 - 2D/3D Graphics, Video, Image processing
 - Broad range of Codecs and APIs
 - Dual ARM cores
 - Low-power, suitable for portable platforms
- 128MB 64-bit Mobile DDR Memory
- 32MB NOR Flash
- Integrated Audio and Power Controller
 - Audio DAC SNR 98dB / ADC SNR 95dB
 - Power Supply Generation
 - Battery Charging
- Connectors and buttons
 - USB 2.0 OTG Hi-Speed mini A/B connector
 - 250-pin inter board connector
 - JTAG port
 - On/Off and HW reset buttons
- Physical
 - 79mm x 54mm

I/O BASEBOARD

- 4GB MLC NAND Flash
 - Accessed via managed NAND controller
- LCD Touch Screen
 - 4.3", 24-bit 800x480 WVGA
 - Integrated 4-wire touch screen controller
- HDMI Video Output
 - HDMI 1.2 / DVI 1.0 transmitter
 - 480i/p and 576i/p to 1080p
 - I2S stereo
 - HDMI Type A connector
- Networking
 - 10/100 Base-T Ethernet controller, RJ-45
 - 802.11b/g wireless Ethernet
- USB 2.0
 - High speed Host and Peripheral
 - Type A and Mini-AB port
- Hard Disk Drive Header
 - 44-pin powered, 2.5" ATA disk connector
 - Customer fit (not fitted as standard)
- SDHC/MMC Card Slot
 - 4-bit standard SD card slot
 - SD and SDHC support
- Serial ports and Buttons
 - 1x 9-pin D-Type serial port
 - 1x UART, see Communication Connector
 - 5x buttons (on/off, reset, 3 additional)
- Audio
 - Stereo Line-In (3.5mm jack)
 - Mic-In (3.5mm jack)
 - Line-Out L/R (2x RCA)
 - SPDIF In and Out (Optical)
 - Mono Speaker and Microphone
- Analog Video Connectors
 - 3x RCA connectors
 - Component (RGB and Pr/Y/Pb)
 - Composite/CVBS
- Video I/O Connectors
 - 3x independent video I/O connectors
 - Support 3rd party video devices
 - Additional 39-pin LCD flex connector
 - Additional 24-pin Sensor flex connector
- Communications Connector
 - For interfacing to 3rd party devices
 - SDIO, I2S, UART, HSI, GPIO
- Power
 - 5V DC-In with Power Supply
 - 3-pin battery connector
- Physical
 - 220mm x 175mm (excluding LCD)