

PRODUCT BRIEF:

Logic PD :: Texas Instruments
www.logicpd.com/am1808evm

Zoom™ AM1808 EVM Development Kit

Logic PD's product-ready software and hardware platforms fast forward your product development while reducing risk and controlling costs. The Zoom AM1808 EVM Development Kit is a high-performance application development kit to evaluate the functionality of Texas Instruments' (TI) energy-efficient AM1808 applications processor and Logic PD's System on Module (SOM).

Application development is performed right on the product-ready AM1808 SOM-M1 and software Board Support Packages (BSPs) included in the kit, which enables you to seamlessly transfer your application code and hardware into production. The included SOM-M1 provides easy evaluation of the AM1808 processor.

The AM1808 SOM-M1 is ideal for applications that require high-speed data transfer and high-capacity storage, such as test and measurement, public safety radios, audio applications, and intelligent occupancy sensors. The AM1808 offers a universal parallel port (uPP) and is the first TI device with an integrated Serial Advanced Technology Attachment (SATA) interface. For medical, industrial, audio,



ZOOM AM1808 EVM DEVELOPMENT KIT

and communication products, the AM1808 SOM-M1 allows for powerful versatility, long-life, and greener products.

The Zoom AM1808 EVM Development Kit includes the AM1808 SOM-M1, application baseboard, user interface (UI) board, 4.3" WQVGA LCD, accessories, and software required to immediately begin development work.

ZOOM AM1808 EVM :: HIGHLIGHTS:

- +AM1808 SOM-M1
- +Application baseboard
- +User Interface board
- +4.3" WQVGA LCD
- +WLAN and Bluetooth® daughter card
- +Linux™ and Windows® Embedded CE SDKs
- +Blackhawk USB100v2 JTAG controller
- +Necessary accessories to immediately get up and running

AM1808 SOM-M1 :: BENEFITS:

- +Product-ready System on Module with a TI AM1808 processor running at 450 MHz
- +Compact form factor—SOM-M1 (30.0 x 40.0 x 4.5 mm)
- +Long product lifecycle
- +Commercial temp (0°C to 70°C)
Industrial temp (-40°C to 85°C)
- +RoHS compliant
- +See the AM1808 SOM-M1 Product Brief for more information

Zoom™ AM1808 EVM Development Kit Ordering Information

| Model Number | SOM-M1 Configuration Included | Suggested Resale |
|-------------------------------|------------------------------------|------------------|
| TMDXEVMWIFI1808L ¹ | SOMAM1808-10-1602AHCR ² | \$1150 |

NOTES: 1. The AM1808 EVM is available through Texas Instruments distributors.

2. This configuration has added power measurement circuitry.

AM1808 SOM-M1 Ordering Information

| Model Number | Speed (MHz) | mDDR (MB) | NOR Flash (MB) | Wired Ethernet | SATA | Temp (°C) |
|-----------------------|-------------|-----------|----------------|----------------|------|-----------|
| SOMAM1808-10-1502QHCR | 450 | 64 | 8 | Y | N | 0°-70° |
| SOMAM1808-10-1602QHIR | 450 | 128 | 8 | Y | N | -40°-85° |

NOTE: Custom configurations are available by special order. Please contact Logic PD Sales for details.

Product Features

AM1808 SOM-M1 Included

+ TI AM1808 processor, 128 MB mDDR SDRAM, 8 MB NOR flash, wired Ethernet, SATA

Application Baseboard Features

Display Interfaces

+ Integrated 16 bpp LCD, touch, and backlight connector

USB

+ One USB 2.0 high-speed On-the-Go interface
+ One USB 1.1 full-speed host

Included LCD Panel

+ 4.3" WQVGA LCD panel
+ 4-wire resistive touchscreen

Serial Ports

+ 115.2kbps RS-232 debug serial port

Network Support

+ One RJ45 Ethernet jack connector with magnetics (application/debug)

Debug

+ Connectors for JTAG interface
+ Included Blackhawk USB100v2 JTAG controller

SATA

+ One Serial ATA connector

Audio

+ One MMC/SD card slot
+ Stereo in/out connectors
+ TLV320AIC3106 audio codec

UI Board Features

Video

+ S-Video in/out connectors (TVP5147/ADV7343)
+ Analog video in/out connectors (TVP5147/ADV7343)
+ Analog-to-digital converter (ADS901)
+ Digital-to-analog converter (DAC900)
+ Camera interface

LCD Panel

+ 48-character LCD panel

Network Support

+ One RJ45 Ethernet jack connector

Memory

+ 8 MB NOR flash
+ 512 MB NAND flash

Software and Kit Contents

Software

+ U-Boot (bootloader/monitor)
+ Linux™ demo & SDK on SD card
+ Windows® Embedded CE demo & SDK on SD card
+ Code Composer Studio (CCS)
+ Board Support Library (BSL) sample programs
+ CodeSourcery G++ Lite and Commercial Tools - Evaluation DVD
+ Ubuntu 10.04 LTS Desktop Edition CD
+ Windows Embedded CE 6.0 180-day Evaluation Kit

+ Mentor Graphics ReadyStart™ for Nucleus CD

WLAN and Bluetooth Daughter Card

Cables & Accessories

+ Serial cable (null-modem)
+ Ethernet crossover cable
+ USB A to mini-B cable
+ USB SD card reader
+ 5 volt power supply (with Europe, Japan, UK, & US adapters)

RoHS Compliant



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