

**PRODUCT BRIEF:**

Logic :: Texas Instruments  
www.logicpd.com/ti

## Zoom™ AM1808 EVM Development Kit

**Logic'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 for evaluating the functionality of Texas Instruments' energy-efficient AM1808 applications processor and Logic'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 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 are the first TI devices with an integrated Serial Advanced Technology Attachment (SATA) interface. For medical, industrial, audio, and communication products, the AM1808 SOM-M1 allows for powerful versatility, long-life, and greener products.



### ZOOM AM1808 EVM DEVELOPMENT KIT

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
- + Open source Linux™ BSP
- + 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
- + 0°C to 70°C (commercial temp)
- + RoHS compliant



## Zoom™ AM1808 EVM Development Kit Ordering Information

Model Number	SOM-M1 Configurations Included	Suggested Resale
TMDXEVM1808L <sup>1</sup>	SOMXAM1808-11-1602AHCR <sup>2</sup>	\$1150

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

2. This configuration is the SOMXAM1808-10-1602AHCR with added power measurement circuitry.

## AM1808 SOM-M1 Ordering Information

Model Number	Processor	Speed (MHz)	mDDR (MB)	NOR Flash (MB)	Wired Ethernet	SATA
SOMXAM1808-10-1602AHCR	XAM1808	450	128	8	Y	Y
SOMXAM1808-10-1502AHCR	XAM1808	450	64	8	Y	Y
SOMXAM1808-10-1502QHCR	XAM1808	450	64	8	Y	N

NOTE: Custom configurations are available by special order. Please contact Logic Sales for details: [product.sales@logicpd.com](mailto:product.sales@logicpd.com).

## Optional Zoom Display Kit Ordering Information

Model Number	Sharp LCD PN	Display Size	Display Format	Key Features
LCD-3.6-QVGA-10R	LQ036Q1DA01	3.6"	QVGA 320x240	Landscape, color, transmissive w/HRTFT ASIC
LCD-6.4-VGA-10R	LQ64D343	6.4"	VGA 640x480	Landscape, color, transmissive

NOTE: Please see the Logic website for details: [www.logicpd.com/products/display-kits](http://www.logicpd.com/products/display-kits).

### LOGIC WEBSITE :: DESIGN RESOURCES:

- +Logic Products : [www.logicpd.com/products](http://www.logicpd.com/products)
- +Logic Technical Support : [www.logicpd.com/product-support](http://www.logicpd.com/product-support)
- +For more information contact Logic Sales : [product.sales@logicpd.com](mailto:product.sales@logicpd.com)



411 N. Washington Ave. Suite 400 Minneapolis, MN 55401  
T : 612.672.9495 F : 612.672.9489 I : [www.logicpd.com](http://www.logicpd.com)



## Product Features

### Texas Instruments AM1808 SOM-M1 Included

- +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

### Included LCD Panel

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

### Network Support

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

### SATA

- +One Serial ATA connector

### PC Card Expansion

- +One MMC/SD card slot

### USB

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

### Serial Ports

- +115.2kbps RS-232 debug serial port

### Debug

- +Connectors for JTAG interface
- +Included Blackhawk USB100v2 JTAG controller

### Audio

- +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)
- +Open source Linux BSPs
- +Code Composer Studio (CCS) v4.1.1
- +Board Support Library (BSL) sample programs
- +Linux demo image on SD card
- +Code Sourcery G++ Lite and Commercial Tools - Evaluation DVD

### Cables & Accessories

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

### RoHS Compliant