

**PRODUCT BRIEF:**

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

## Zoom™ OMAP-L138 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 OMAP-L138 EVM Development Kit is a high-performance application development kit for evaluating the functionality of Texas Instruments' energy-efficient OMAP-L138 applications processor, TMS320C6748 Digital Signal Processor (DSP), and Logic PD's System on Module (SOM).

Application development is performed right on the product-ready OMAP-L138 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 SOMs provide easy evaluation of the OMAP-L138 processor and TMS320C6748 DSP.

The OMAP-L138 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 OMAP-L138 and TMS320C6748 offer 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 OMAP-L138 SOM-M1 allows for powerful versatility, long-life, and greener products.



ZOOM OMAP-L138 EVM DEVELOPMENT KIT

The Zoom OMAP-L138 EVM Development Kit includes two SOMs (OMAP-L138 SOM-M1 and TMS320C6748 SOM-M1), application baseboard, user interface (UI) board, accessories, and software required to immediately begin development work.

**ZOOM OMAP-L138 EVM :: HIGHLIGHTS:**

- +OMAP-L138 SOM-M1
- +TMS320C6748 SOM-M1
- +Application baseboard
- +User Interface board
- +Open source Linux™ BSP
- +Necessary accessories to immediately get up and running

**OMAP-L138 SOM-M1 :: BENEFITS:**

- +Product-ready System on Module with a TI OMAP-L138 processor or TMS320C6748 DSP running at 375 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

## Zoom™ OMAP-L138 EVM Development Kit Ordering Information

Model Number	SOM-M1 Configurations Included	Suggested Resale
TMDXOSKL138BET <sup>1</sup>	SOMOMAPL138-11-1602AHCR <sup>2</sup> SOMC6748-10-1602AHCR	\$849

NOTES: 1. The EVM Development Kit is available through Texas Instruments distributors. The OMAP-L138 EVM currently uses pre-release (X) processor silicon.

2. This configuration is the SOMOMAPL138-10-1602AHCR with added power measurement circuitry.

## OMAP-L138/C6748 SOM-M1 Ordering Information

Model Number	Processor	mDDR (MB)	NOR Flash (MB)	Wired Ethernet	SATA	Temp. (°C)
SOMOMAPL138-10-1602AHCR	OMAPL138	128	8	Y	Y	0–70
SOMOMAPL138-10-1502QHCR	OMAPL138	64	8	Y	N	0–70
SOMOMAPL138-10-1602QHCR	OMAPL138	128	8	Y	N	-40–85
SOMC6748-10-1602AHCR	TMS320C6748	128	8	Y	Y	0–70

NOTE: Custom configurations are available by special order. Please contact Logic PD 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-4.3-WQVGA-10R	LQ043T1DG01	4.3"	WQVGA 480x272	Widescreen, color, transmissive
LCD-6.4-VGA-10R	LQ64D343	6.4"	VGA 640x480	Landscape, color, transmissive

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

### LOGIC PD WEBSITE :: DESIGN RESOURCES:

+Logic PD Products : [www.logicpd.com/products](http://www.logicpd.com/products)

+Logic PD Technical Support : [www.logicpd.com/product-support](http://www.logicpd.com/product-support)

+For more information contact Logic PD Sales : [product.sales@logicpd.com](mailto:product.sales@logicpd.com)



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## Product Features

### Texas Instruments OMAP-L138 SOM-M1 & TMS320C6748 SOM-M1 Included

+ Two SOMs included to evaluate the OMAP-L138 processor and TMS320C6748 DSP

### LCD Display Connector

+ Integrated LCD, touch, and backlight connector for optional Zoom Display Kits

### Audio

+ Stereo in/out connectors  
+ TLV320AIC3106 audio codec

### Network Support

+ Baseboard RJ45 Ethernet connector

### SATA

+ Serial ATA connector

### PC Card Expansion

+ MMC/SD card

### 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  
+ XDS100 emulation circuit

### User Interface (UI) Board

+ 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  
+ 48-character LCD panel  
+ UI board RJ45 Ethernet connector  
+ 8 MB NOR flash  
+ 512 MB NAND flash

### Software

+ U-Boot (bootloader/monitor)  
+ Open source Linux BSPs  
+ Code Composer Studio (CCS) v3.3  
+ DSP/BIOS  
+ Board Support Library (BSL) sample programs

### Cables

+ 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

