

PRODUCT BRIEF:

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

Zoom™ OMAP-L138 eXperimenter 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 eXperimenter Kit is a low-cost application development kit for evaluating the functionality of Texas Instruments' energy-efficient OMAP-L138 applications processor 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 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, music effects and intelligent occupancy sensors. The OMAP-L138 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, and communication products, the OMAP-L138 SOM-M1



ZOOM OMAP-L138 eXperimenter KIT

allows for powerful versatility, long-life, and greener products.

The Zoom OMAP-L138 eXperimenter Kit includes the OMAP-L138 SOM-M1, application baseboard, 4.3" WQVGA LCD panel, accessories, and software required to immediately begin development work.

ZOOM OMAP-L138 eXPERIMENTER KIT :: HIGHLIGHTS:

- +Low-cost eXperimenter kit
- +OMAP-L138 SOM-M1
- +Application baseboard
- +4.3" WQVGA LCD panel
- +Linux™ DVSDK
- +Windows® Embedded CE SDK

OMAP-L138 SOM-M1 :: BENEFITS:

- +Product-ready SOM with a TI OMAP-L138 processor or TMS320C6748 DSP running at 375 MHz
- +Compact form factor—SOM-M1 (30.0 x 40.0 x 4.1 mm)
- +Long product lifecycle
- +Commercial temp (0°C to 70°C)
Industrial temp (-40°C to 85°C)
- +RoHS compliant
- +See the OMAP-L138 SOM-M1 Product Brief for more information

Zoom™ OMAP-L138 eXperimenter Kit Ordering Information

Model Number	SOM-M1 Configurations Included	Suggested Resale
TMDSEXPL138	SOMOMAPL138-10-1602AHCR	\$495

OMAP-L138/C6748 SOM-M1 Ordering Information

Model Number	Processor	Speed (MHz)	mDDR (MB)	NOR Flash (MB)	Wired Ethernet	SATA	Temp. (°C)
SOMOMAPL138-10-1602AHCR	OMAPL138	375	128	8	Y	Y	0–70
SOMOMAPL138-10-1502QHCR	OMAPL138	375	64	8	Y	N	0–70
SOMOMAPL138-10-1602QHIR	OMAPL138	375	128	8	Y	N	-40–85
SOMC6748-10-1602AHCR	TMS320C6748	375	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.

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.

LOGIC PD WEBSITE :: DESIGN RESOURCES:

- +Logic PD Products : www.logicpd.com/products
- +Logic PD Technical Support : www.logicpd.com/product-support
- +For more information contact Logic PD Sales : product.sales@logicpd.com



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Product Features

Texas Instruments OMAP-L138 SOM-M1 Included

- +OMAP-L138 processor, 128 MB mDDR SDRAM, 8 MB NOR flash, wired Ethernet, SATA

LCD Display Connector

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

Included LCD Panel

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

Audio

- +Stereo in/out connectors
- +TLV320AIC3106 audio codec

Network Support

- +One 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

- +1 115.2kbps RS-232 debug serial port

Debug

- +Connectors for JTAG interface
- +XDS100v1 emulation circuit

Software

- +Linux demo & DVSDK on SD card
- +Windows Embedded CE demo & SDK on SD card
- +U-Boot (bootloader/monitor)
- +DSP/BIOS
- +Board Support Library (BSL) sample programs
- +Code Composer Studio (CCStudio) v4.2
- +Ubuntu 10.04 LTS Desktop Edition CD
- +CodeSourcery G++ Lite and Commercial Tools - Evaluation DVD
- +Windows Embedded CE 6.0 180-day Evaluation Kit

Cables

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

RoHS Compliant