

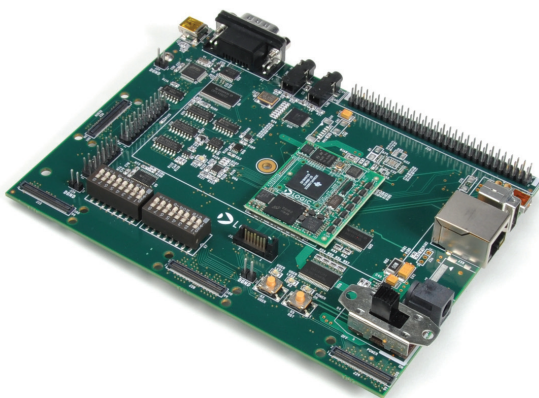
Zoom™ OMAP-L138 eXperimenter Kit

Development Kit

Beacon EmbeddedWorks' 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' (TI) energy-efficient OMAP-L138 applications processor and Beacon EmbeddedWorks' System on Module (SOM).

Application development is performed right on the product-ready OMAP-L138 SOM-M1 and software Board Support Package (BSP) 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 allows for powerful versatility, long-life, and greener products.



Zoom™ OMAP-L138
eXperimenter Kit

The Zoom OMAP-L138 eXperimenter Kit includes the OMAP-L138 SOM-M1, application baseboard, 4.3" WQVGA LCD panel, accessories, and software

Zoom™ OMAP-L138 eXperimenter Kit

HIGHLIGHTS

- Low-cost eXperimenter kit
- OMAP-L138 SOM-M1
- Application baseboard
- 4.3" WQVGA LCD panel
- Linux™ DVSDK

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
- See the OMAP-L138 SOM-M1 Product Brief for more information

Zoom™ OMAP-L138 eXperimenter Development Kit Ordering Information

MODEL NUMBER	SOM-M1 CONFIGURATIONS INCLUDED	RECOMMENDED RESALE
TMDSEXPL138	SOMOMAPL138-10-1602AHCR	\$495

OMAP-L138/C6748 SOM-M1 Ordering Information

MODEL NUMBER ¹	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°
SOMOMAPL138-10-1602QHCR	OMAPL138	375	128	8	Y	N	-40°-85°
SOMC6748-10-1602AHCR	TMS320C6748	375	128	8	Y	Y	-0°-70°

NOTES:

1. Custom configurations are available by special order. Please contact Beacon EmbeddedWorks Sales for details.

PRODUCT FEATURES

OMAP-L138 SOM-M1

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

LCD Display Connector

- Integrated LCD, touch, and backlight connector

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

- 115.2kbps RS-232 debug serial port

Debug

- Connectors for JTAG interface
- XDS100v1 emulation circuit

Software

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

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