ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Logic PD Zoom OMAP-L138* at our website: ***Click HERE***

OMAP-L138 SOM-M1

System on Module

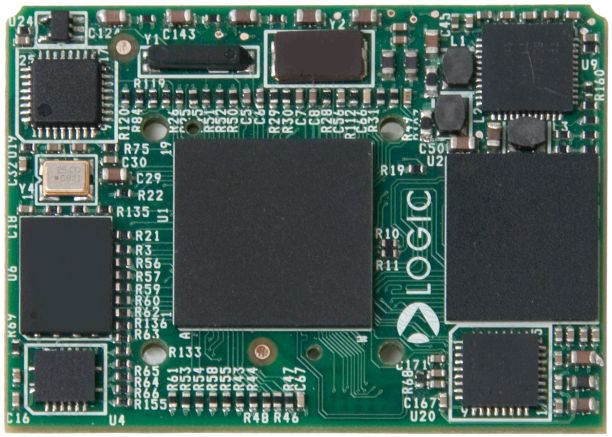
Essential features for handheld and embedded networking applications and DSP functionality

The OMAP-L138 System on Module (SOM) is a compact, product-ready hardware and software solution that fast forwards embedded designs while reducing risk and controlling cost.

Based on Texas Instruments' OMAP-L138 processor and designed in the SOM-M1 form factor, the OMAP-L138 module offers essential features for handheld and embedded networking applications. The OMAP-L138 SOM-M1 features the superset OMAP-L138 processor, but also supports the TMS320C6748 digital signal processor (DSP).

The OMAP-L138 SOM-M1 brings the industry leading low power ARM926 core to a small, off-the-shelf solution. The standard SOM-M1 form factor allows developers to reuse existing baseboard designs when upgrading to new OMAP processors, which extends roadmap possibilities for their end-product.

For medical, industrial, audio, and communication products, the OMAP-L138 SOM-M1 allows for powerful versatility, long-life, and greener products.



OMAP-L138 SOM M-1

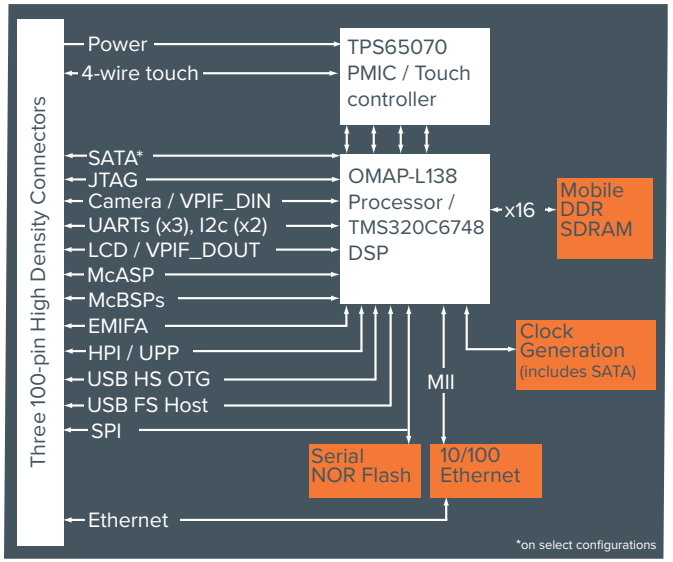
The compact size of the OMAP-L138 SOM-M1 is ideal for medical patient monitoring wearables and other portable instrumentation applications; the built-in Serial ATA (SATA) controller provides fast access to large capacity storage devices.

OMAP-L138 SOM-M1 :: HIGHLIGHTS:

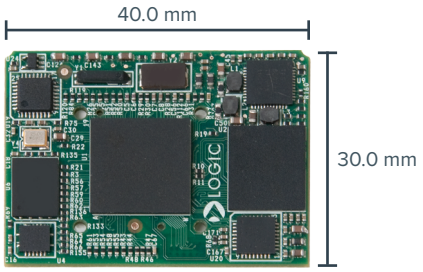
+ Product-ready System on Module with a TI OMAP-L138 processor or TMS320C6748 DSP running at 375 MHz
+ Compact form factor—SOM-M1 (30 x 40 x 4.1 mm)
+ Linux™ DVSDK
+ Commercial temp (0˚C to 70˚C) Industrial temp (-40˚C to 85˚C)
+ Long product lifecycle
+ RoHS compliant

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

OMAP-L138/C6748 SOM-M1 Block Diagram



(Block diagram is not drawn to scale; for reference purposes only.)



TOP VIEW :: ACTUAL SIZE

OMAP-L138/C6748 SOM-M1 Ordering Information

Model Number	Processor	Speed (MHz)	mDDR (MB)	NOR Flash(MB)	10/100 Ethernet	SATA	Temp (°C)
SOMOMAPL138-10-1603AHCR	OMAPL138	375	128	16	Y	Y	0°–70°
SOMOMAPL138-10-1503QHCR	OMAPL138	375	64	16	Y	N	0°–70°
SOMOMAPL138-10-1603QHIR	OMAPL138	375	128	16	Y	N	-40°–85°
SOMC6748-10-1603AHCR	TMS320C6748	375	128	16	Y	Y	0°–70°

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

Product Features

Choice of Processor
+TI OMAP-L138 processor with dual core ARM926EJ-S and C6748 VLIW DSP running at 375 MHz
+TI TMS320C6748 VLIW DSP running at 375 MHz

SDRAM Memory
+Mobile DDR, 64 or 128 MB

Flash Memory
+Scalable serial NOR flash (16 MB standard)

Display
+Programmable color LCD controller supports up to a 16 bpp TFT interface

Touchscreen
+Integrated 4-wire touchscreen controller (TPS65070)

Network Support
+10/100 Base-T Ethernet controller

Serial ATA Controller
+SATA 1.5 & 3.0 Gbps support

PC Card Expansion
+MMC/SD card support

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

Serial Ports
+Three external UARTs
+Two I2Cs

GPIO
+Programmable I/O depending on peripheral requirements

Software
+U-Boot (bootloader/monitor)
+Linux™ DVSDK
+Windows® Embedded CE SDK
+DSP/BIOS
+Board Support Library (BSL) sample programs

Mechanical
+SOM-M1 form factor
+30.0 mm wide x 40.0 mm long x 4.1 mm high

RoHS Compliant

LOGIC PD®

6201 Bury Dr. | Eden Prairie, MN 55346
T : 952.941.8071 F : 952.941.8065 | www.logicpd.com

© 2017 Logic PD, Inc. All rights reserved. PN: 1013566 Rev H

LOGIC PD WEBSITE :: DESIGN RESOURCES:

+Logic PD Products : www.logicpd.com/products
+Logic PD Technical Support : support.logicpd.com
+Logic PD Sales : www.logicpd.com/contact/

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP