beacon EmbeddedWorks



DM3730 / AM3703 SOM-LV

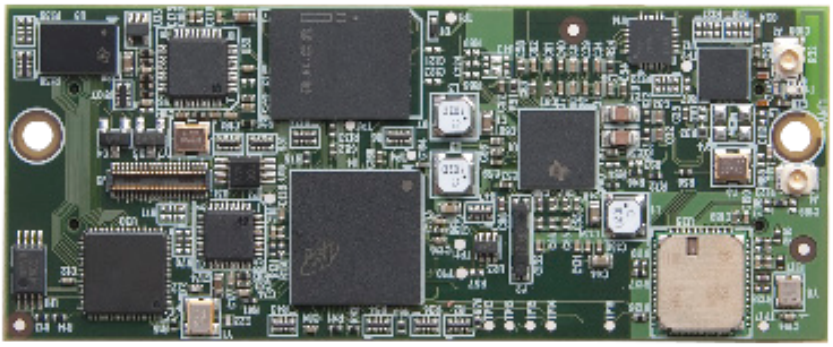
Boasts speeds of up to 800 MHz and contains an on-board Bluetooth 2.1 + EDR technology wireless radio and a 10/100 Ethernet controller with optional DSP functionality

The DM3730 SOM-LV presents a high-performance, full-featured System on Module (SOM) with all the necessary connectivity interfaces essential for today's market-changing products.

Based on Texas Instruments' DaVinci™ DM3730 digital media processor, the DM3730 SOM-LV boasts PC-like speeds OF 800MHz and contains on-board Bluetooth 2.1 + EDR technology wireless radios, and a 10/100 Ethernet controller.

By remaining footprint compatible with our existing OMAP35x SOM-LV product line, the DM3730 SOM-LV extends the roadmaps of existing products and provides an upgrade path from today's products to future technologies.

By starting with the corresponding Zoom™ DM3730 Development Kit, engineers can write application software on the same hardware that will be used in the final product.



DM3730 / AM3703 SOM-LV
**Enlarged to show detail*

The DM3730 SOM-LV is ideal for applications in the medical, point-of-sale, industrial, and security markets. From patient monitoring and medical imaging, to card payment terminals and bar code readers, to CCTV cameras and intruder alarms, the DM3730 SOM-LV allows for powerful versatility and long-life products.

DM3730 / AM3703 SOM-LV

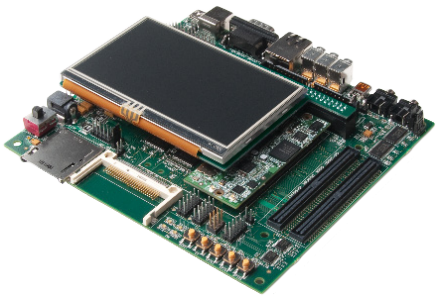
HIGHLIGHTS

- Product-ready System on Module with a TI DM3730 or AM3703 ARM® Cortex™-A8 processor running AT 800 MHz
- Bluetooth 2.1 + EDR radio
- 10/100 Ethernet controller
- Android, Linux™, and Windows® Embedded CE Board Support Packages (BSPs)
- Industrial temp (-40˚C to 85˚C)
- Compact form factor—SOM-LV Type III (31.2 x 76.5 x 7.4 mm)
- Long product lifecycle

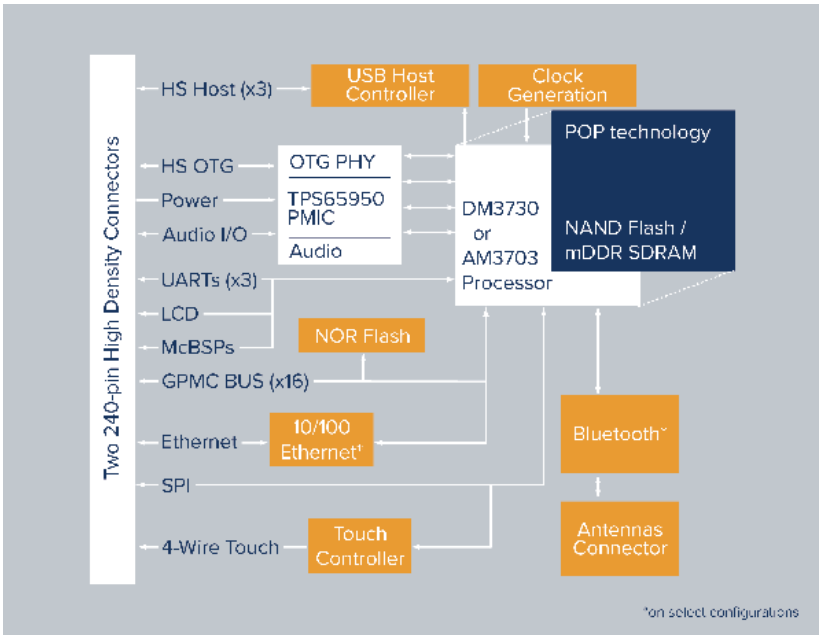
Zoom™ DM3730 SOM-LV Development Kit

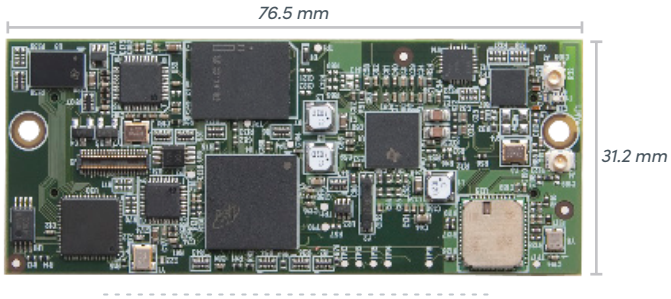
FEATURES

- Application baseboard
- DM3730 SOM-LV
- 4.3" WQVGA LCD with 4-wire touchscreen
- Wattson™ power measurement application
- Necessary accessories to immediately get up and running
- See the Zoom DM3730 SOM-LV Development Kit Product Brief for more information



DM3730 / AM3703 SOM-LV Block Diagram





Top View ▸ Actual Size

DM3730 / AM3703 SOM-LV Ordering Information

MODEL NUMBER	SPEED (MHz)	mDDR/NAND FLASH (MB)	NOR FLASH (MB)	10/100 ETHERNET	802.11 b/g/n ETHERNET	BLUETOOTH 2.1 + EDR	TEMP. (°C)	DSP
SOMDM3730-11-1783JFIR	800	256/512	16	Y	N	Y	-40°–85°	Y

Zoom™ DM3730 SOM-LV Development Kit Ordering Information

MODEL NUMBER	SOM CONFIGURATION	SUGGESTED RESALE
SDK-DM3730-10-256512R	SOMDM3730-10-2782IFCR	$997

PRODUCT FEATURES

Processor
- TI DaVinci™ DM3730 ARM® Cortex™-A8 core running at 800 MHz
- TMS320C64x DSP core running at 660 MHz (DM3730 only)
- POWER SGX™ graphics accelerator (DM3730 only)

Memory
- Mobile DDR / NAND flash (PoP technology) 256 MB / 512 MB
- NOR flash 16 MB

Display
- Programmable color LCD controller supports up to 24 bpp TFT interface
- Hardware supports XGA 1024x768 at 24-bit color

Network Support
- 10/100 Base-T Ethernet controller
- Bluetooth 2.1 + EDR

Audio
- I2S compliant audio codec (16-bit stereo DAC, 13-bit ADC)

User Interface
- Integrated 4-wire touchscreen controller
- 8 x 8 keypad signals

PC Card Expansion
- CompactFlash Type I card (memory-mode only)
- MMC/SD card support

USB
- Three USB 2.0 high-speed host interface
- One USB 2.0 high-speed On-the-Go interface

Serial I/O
- Three external UARTs

GPIO
- Programmable I/O depending on peripheral requirements
- General purpose memory controller (GPMC) interface

Debug
- JTAG & ETM support

Software
- LogicLoader™ (bootloader/monitor)
- Android, Linux™, Windows® Embedded CE BSPs

Mechanical
- 31.2 mm wide x 76.5 mm long x 7.4 mm high

RoHS Compliant

beacon EmbeddedWorks

6201 Bury Dr.
Eden Prairie, MN 55346
beaconembedded.com

T (612) 436-9724
F (952) 941-8065

Beacon Website | System on Modules
Products: beaconembedded.com/system-on-modules
Technical Support: support.beaconembedded.com
Sales: beaconembedded.com/contact

© 2021 Logic PD, Inc. dba Beacon Embedded Works PN: 1018062 Rev F