Zoom™ DM3730 Torpedo™
Development Kit

The Zoom DM3730 Torpedo Development Kit is a low-power, high-performance application development kit to evaluate the functionality of the Texas Instruments (TI) DaVinci™ DM37x and Sitara™ AM37x processors and Logic PD's System on Module (SOM).

Application development is performed on the product-ready SOMs using the software Board Support Packages (BSPs) included with the kit, enabling you to seamlessly transfer application code and hardware into production. The development kit includes two SOMs: the DM3730 Torpedo SOM and the DM3730 Torpedo + Wireless SOM. Both SOMs utilize the superset DM3730 processor, allowing for easy evaluation of either the DM3730 or AM3703 processor.

The ultra-compact DM3730 Torpedo SOM is an ideal off-the-shelf solution for applications in markets where space is a premium. The award-winning DM3730 Torpedo + Wireless SOM integrates the WiLink™ 7.0 wireless solution, providing access to all wireless protocols required in today's connected world: 802.11a/b/g/n, Bluetooth, and GPS.

ZOOM DM3730 TORPEDO DEVELOPMENT KIT WITH INCLUDED DM3730 TORPEDO + WIRELESS SOM & 4.3" WQVGA LCD

To assist with software development, Logic PD includes Wattson™, a power measurement and performance monitoring application. Wattson delivers real-time graphical feedback and data-logging capabilities without the need for external oscilloscopes and meters. The application guides you to the lowest power and highest performance software combination for your product. Wattson runs on Windows® and Linux™ PCs, enabling software development for Windows CE- and Linux-based products.

ZOOM DM3730 TORPEDO DEVELOPMENT KIT :: HIGHLIGHTS:

+ Includes product-ready DM3730 Torpedo SOM & DM3730 Torpedo + Wireless SOM
+ Includes 4.3" WQVGA LCD with touchscreen
+ Ready to run Board Support Packages (BSPs):
  Android™ BSP
  Linux™ BSP
  Windows® CE BSP (supported on non-wireless SOM only)
+ Wattson power measurement application
+ Compact size

DM3730 TORPEDO SOMS :: BENEFITS:

+ Long product lifecycle
+ Low-power, high-performance
+ Ultra-compact form factor
  15 x 27 x 3.8 mm : non-wireless SOM (installed)
  15 x 34 x 3.8 mm : wireless SOM (installed)
+ 802.11a/b/g/n, Bluetooth, & GPS connectivity (wireless SOM only)
+ FCC & IC modular certified (wireless SOM only)
+ See respective SOM product briefs for more information

Zoom™ DM3730 Torpedo™ Development Kit Ordering Information

Model Number	SOM Configuration	Suggested Resale
SDK-DM3730-30-256512R	SOMDM3730-32-2780AKCR SOMDM3730-20-2780AGCR	$997

DM3730 / AM3703 Torpedo SOM Ordering Information

Model Number	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	Temp. (°C)
SOMAM3703-20-1780AGCR	800	256	512	0°–70°[2]
SOMDM3730-20-2780AGCR	1000	256	512	0°–70° [2]
SOMDM3730-20-1780AGIR	800	256	512	-40°–85° [3]
SOMDM3730-20-1880AGIR	800	512	512	-40°–85° [3]
SOMDM3730-20-2880AGXR	1000	512	512	-40°–70° [2]

NOTES: 1. Custom configurations are available by special order. Please contact Logic PD Sales for details.
2. Junction temperature of the DM3730/AM3703 processor must stay below 90°C.
3. Junction temperature of the DM3730/AM3703 processor must stay below 105°C.

DM3730 / AM3703 Torpedo + Wireless SOM Ordering Information

Model Number[1]	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	Temp. (°C)
SOMAM3703-32-1780AKIR	800	256	512	-40°–85° [2]
SOMDM3730-32-1880AKIR	800	512	512	-40°–85° [2]
SOMDM3730-32-2780AKCR	1000	256	512	0°–70° [3]
SOMDM3730-32-2880AKXR	1000	512	512	-40°–70° [3]

NOTES: 1. Custom configurations are available by special order. Please contact Logic PD Sales for details.
2. Junction temperature of the DM3730/AM3703 processor must stay below 105°C.
3. Junction temperature of the DM3730/AM3703 processor must stay below 90°C.

Optional Zoom Display Kit Ordering Information

Model Number	Sharp LCD P/N	Display Size	Display Format	LCD Interface	Key Features
LCD-4.3-WQVGA-20R	LQ043T1DG28	4.3”	WQVGA 480 x 272	TFT	Widescreen, color, transmissive

NOTES: The Zoom DM3730 Torpedo Development Kit comes with a 4.3” WQVGA LCD. The Zoom Display Kit listed in the table above is available for purchase separately. Please see the Logic PD website for more details:
www.logicpd.com/dm3730-am3703-torpedo-som

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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/

Product Features

Included DM3730 Torpedo SOMs
+ TI DaVinci™ DM3730 processor, 1 GHz, 256 MB mDDR SDRAM, 512 MB NAND flash
+ TMS320C64x DSP core running up to 800 MHz (DM3730 only)
+ TI WL1283 chipset providing 802.11a/b/g/n, Bluetooth, and GPS connectivity*

Included LCD Panel
+ 4.3” WQVGA LCD panel
+ 4-wire resistive touchscreen

Display
+ Integrated LCD, touch, and backlight connector for 4.3” LCD panel
+ 24-bit HDMI port (video only)

Audio
+ Stereo input and output jacks

Network Support
+ One RJ45 Ethernet jack connector with magnetics (application/debug)

PC Card Expansion
+ Two MMC/SD card slots

USB
+ One USB 2.0 high-speed On-the-Go device
+ Two USB 2.0 high-speed host ports

Serial I/O
+ 115.2kbps RS-232 debug serial port

Camera
+ Parallel camera interface connector

Debug
+ Connectors for JTAG and ETM interfaces

Software
+ LogicLoader™ (bootloader/monitor)
+ Android™, Linux™, Windows® CE** BSPs
+ Windows CE 180-day Evaluation Kit**
+ Wattson™ power measurement application

Battery
+ 1100 mAhr, 3.7V Li-Ion battery

Cables
+ Serial cable (null-modem)
+ Two 10-pin to DB9 UART adapter cables
+ Ethernet cable
+ USB cables: two A to mini-B & one mini-A to A
+ 5 volt power supply with universal adapter

Antennas
+ Active GPS antenna and cable adapter
+ Two dual-band dipole antennas

RoHS Compliant

*Wireless version only
**Windows CE software supported on non-wireless version only