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

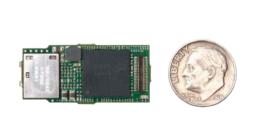
DM3730 / AM3703 Torpedo + Wireless System on Module :: SUPPORTED PROCESSORS: DM3730 AM3703

Combine a powerful applications processor with PC-like speeds and a wireless chipset with 802.11a/b/g/n, Bluetooth, and GPS support; toss in Android and Linux BSPs developed using processes compliant with the ISO 13485 medical system standard; and the outcome is an innovative off-theshelf solution that reduces your development time and risk.

The award-winning Torpedo + Wireless System on Module (SOM) is an ultra-compact form factor built around the Texas Instruments' DaVinci[™] DM3730 processor or Sitara[™] AM3703 processor and WiLink[™] 7.0 wireless solution. Confining these two systems to a single board isolates the complex design, manufacturing, and wireless certifications from the rest of your product.

The DM3730/AM3703 Torpedo + Wireless SOM occupies less than one square inch, but boasts PC-like speeds up to 1 GHz with long battery life. Partnered with such high performance is a startlingly low power consumption in suspend state. This balance of speed and power is accomplished through Logic PD's vast system design experience; understanding the most detailed workings of each component and their interaction with one another creates a product that operates at optimal efficiency.

The WL1283 wireless chipset provides access to all the wireless protocols required in today's connected world. 802.11a/b/g/n, Bluetooth, and GPS signals are natively integrated with the DM3730/AM3703 Torpedo + Wireless SOM and Logic PD BSPs.



DM3730 / AM3703 TORPEDO + WIRELESS SOM

By using the same connectors as Logic PD's existing OMAP35x and DM3730/AM3703 Torpedo SOMs, the DM3730/AM3703 Torpedo + Wireless SOM extends the roadmaps of existing products and provides an upgrade path from today's products to future technologies.

The ultra-compact DM3730/AM3703 Torpedo + Wireless SOM is an ideal off-the-shelf solution for applications in markets where network connectivity is required and space is a premium. From point-ofcare medical products to handheld communication devices, the DM3730/AM3703 Torpedo + Wireless SOM allows for the powerful versatility and compact designs needed in today's market-changing products.

AWARDS WON IN 2012:

- +CONNECT Most Innovative Product
- + Design News Golden Mousetrap Award
- + Embedded Computing Design Top Embedded Innovation

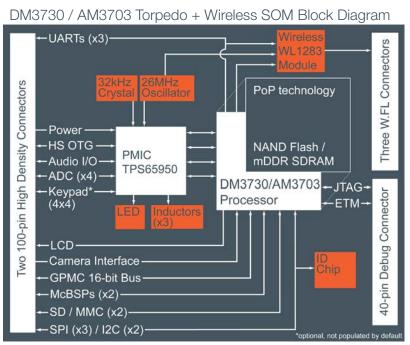
DM3730 / AM3703 TORPEDO + WIRELESS SOM :: HIGHLIGHTS:

- + Product-ready System on Module with a TI DM3730 or AM3703 ARM® Cortex[™]-A8 processor running up to 1 GHz
- + Android & Linux[™] Board Support Packages (BSPs)
- +Network connectivity: 802.11a/b/g/n, Bluetooth, & GPS
- + FCC & IC modular certified
- + Commercial & industrial temp configurations
- + Ultra-compact form factor (15 x 33 x 3.8 mm installed)
- + Same connectors as DM3730 / AM3703 Torpedo SOM + Long product lifecycle

ZOOM™ DM3730 TORPEDO DEVELOPMENT KIT :: FEATURES:

- +Application baseboard
- + DM3730 Torpedo + Wireless SOM DM3730 Torpedo SOM
- +4.3" WQVGA LCD with 4-wire touchscreen
- +Wattson[™] power measurement application
- + Necessary accessories to immediately get up and running





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

DM3730 / AM3703 Torpedo + Wireless SOM Ordering Information

Model Number ¹	Speed (MHz)	SDRAM (MB)	NAND Flash (MB)	Temperature
SOMAM3703-30-1780AKIR	800	256	512	Industrial ²
SOMDM3730-30-2780AKCR	1000	256	512	Commercial ³
SOMDM3730-30-1780AKIR	800	256	512	Industrial ²
SOMDM3730-30-1880AKIR	800	512	512	Industrial 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 105°C.

Junction temperature of the DM3730/AM3703 processor must stay below 105°C
Junction temperature of the DM3730/AM3703 processor must stay below 90°C.

Zoom[™] DM3730 Torpedo Development Kit Ordering Information

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

LOGIC PD WEBSITE :: DESIGN RESOURCES:



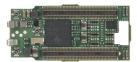
411 N. Washington Ave. Suite 400Minneapolis, MN 5540T: 612.672.9495F: 612.672.9489I: www.logicpd.com

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

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33 mm

TOP VIEW :: ACTUAL SIZE



BOTTOM VIEW :: ACTUAL SIZE

Product Features

Processor

- +TI DaVinci™ DM3730 or Sitara™ AM3703
- ARM® Cortex™-A8 core running up to 1 GHz
- +TMS320C64x DSP core running up to 800 MHz (DM3730 only)
- + POWER SGX[™] graphics accelerator (DM3730 only)

Memory

+Mobile DDR / NAND flash (PoP technology) 256 MB / 512 MB (standard) 512 MB / 512 MB (standard)

Network Connectivity

+WL1283 wireless module featuring 802.11a/b/g/n, Bluetooth, & GPS

Display

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

Camera

+Parallel camera interface

Audio

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

User Interface

+Optional 4x4 keypad interface

PC Card Expansion

+Multiple SD/MMC card support

USB

+One USB 2.0 high-speed On-the-Go interface Serial I/O

+UARTs, SPI, I2C, McBSPs

GPIO

+Programmable I/O depending on peripheral requirements

+ General purpose memory controller (GPMC) interface

Debug

+40-pin debug connector on top side of SOM

+JTAG & ETM support

Software

+Android BSP

- +Linux™ BSP
- +LogicLoader™ (bootloader/monitor)
- +Wattson™ power measurement application

Mechanical (Installed)

+15 mm wide x 33 mm long x 3.8 mm high

FCC & IC Modular Certified

RoHS Compliant