

New PandaBoard ES arms open source mobile developers with TI's OMAP4460 processor

DALLAS (December 7, 2011) —Pandaboard.org today announced the general availability of PandaBoard ES, the next-generation open mobile software development platform based on OMAP 4 technology from Texas Instruments Incorporated (TI). Priced at a low USD \$182, PandaBoard ES is the industry's first board to rely on TI's OMAP4460 processor. The OMAP4460 processor's smart multicore architecture includes two ARM Cortex-A9 cores running at up to 1.2 GHz each, and excels at offloading tasks from the CPU and GPU to free them for more intensive applications. Pandaboard.org also announced that the original PandaBoard is the first and today's only open source development tool to be supported in the Android Open Source project running Android 4.0 ("Ice Cream Sandwich"), giving developers a jumpstart on related software development.

PandaBoard ES is software compatible with PandaBoard, easing project migration from the original board to the next-generation version. Pandaboard.org will continue to support both boards via its fully-established community of Linux experts. Current and new developers designing on mobile open source software distributions such as Android, Linaro and Ubuntu can register projects and access support information at www.pandaboard.org.

PandaBoard's next-generation advancements

At the center of PandaBoard ES sits the OMAP4460 processor, delivering a 20 percent increase in overall performance and a 25 percent increase in graphics when compared to the original board's OMAP4430 processor. The OMAP4460 processor is complemented by TI's latest power management technology and dual-channel LPDDR2 memory for faster processing. Also new to PandaBoard ES is the introduction of a SysBoot switch, allowing for the manual switch of boot order depending on the application's need.

Courtesy of TI's WiLink 6.0 combo connectivity solution, PandaBoard ES is one of the only open mobile development platforms offering Bluetooth low energy technology hardware support, giving developers the opportunity to craft new applications on this emerging technology. PandaBoard ES also supports Wi-Fi and Bluetooth technologies.

For mobile multimedia developers seeking external display flexibility, the next-generation board offers Display Serial Interface (DSI) support along with the original PandaBoard's HDMI, Digital Video Interface (DVI) and DPI support.

PandaBoard ES key features

Feature	Spec

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OMAP4460 processor	<ul style="list-style-type: none">• Two ARM Cortex-A9 MPCores (running at up to 1.2 GHz ea• Two Cortex-M3 cores• Ample MIPS for rich applications
Multimedia	<ul style="list-style-type: none">• Full 1080p30 multi-standard HD record and playback• OpenGL® ES v2.0 graphics engine
Memory	<ul style="list-style-type: none">• Dual-channel, dual 1GB LPDDR2 (DRAM)
Wireless connectivity	<ul style="list-style-type: none">• WiLink™ 6.0 solution (802.11b/g/n, <i>Bluetooth</i>® v2.1 +EDR <i>Bluetooth low energy</i>)
Display	<ul style="list-style-type: none">• HDMI v1.3 connector for HD display• DVI-D connector for simultaneous dual display• DSI interface support
Expansion	<ul style="list-style-type: none">• USB host• USB OTG host
Support	<ul style="list-style-type: none">• Open-source hardware design• Open-source community engagement
Compatibility	<ul style="list-style-type: none">• Software-compatible with original PandaBoard

Pricing, availability, and more

PandaBoard ES is available today at: <http://pandaboard.org/content/buy> [1]. Further details and helpful links:

- PandaBoard ES cost: USD \$182
- Regions shipped to: Worldwide
- Where to buy: <http://pandaboard.org/content/buy> [1]
- Community access: <http://pandaboard.org/content/community/home> [2]
- Mailing list: pandaboard@googlegroups.com [3]
- IRC chat: <http://pandaboard.org/irc> [4]
- Project review and submission: <http://pandaboard.org/content/projects> [5]
- Other portals showcasing PandaBoard: <http://designsomething.org> [6]

The pandaboard.org community will continue to support the OMAP4430 processor-based PandaBoard and all related projects, which remain available for purchase today.

For more information, visit <http://pandaboard.org> [7].

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<http://www.ecnmag.com/product-releases/2011/12/new-pandaboard-es-arms-open-source-mobile-developers-ti%E2%80%99s-omap4460-processor>

Links:

[1] <http://pandaboard.org/content/buy>

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[2] <http://pandaboard.org/content/community/home>

[3] <mailto:pandaboard@googlegroups.com>

[4] <http://pandaboard.org/irc>

[5] <http://pandaboard.org/content/projects>

[6] <http://designsomething.org/>

[7] <http://pandaboard.org>