

OpenBoard-AM335x - PRODUCT BRIEF

OpenBoard FEATURES

SOM:

- PhyCore-AM335x

Memory

- 512 MB DDR3 RAM
- 512 MB NAND
- 8 MB SPI NOR Flash-(Optional)
- 32 KB EEPROM-(Optional)

Serial

- 1x UART (RS232)
- 4xUART (TTL)

USB/Network

- 1x USB Host
- 1x USB OTG
- 1x 10/100/1G Ethernet

Multimedia

- Audio (WM8974)

Display Interface

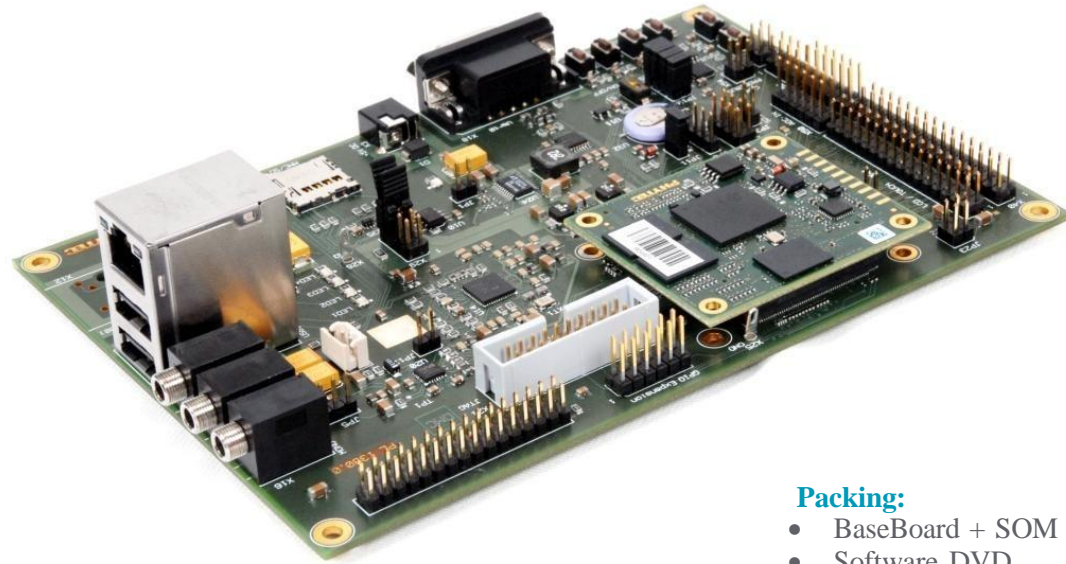
- 24 bpp TTL / LVDS / VGA
- Touch

Misc Interfaces

- 4 User Leds
- 4 User Buttons
- SDCard

Connectors

- WiFi/BT
- 8xADC
- 8xGPIO
- JTAG
- 2xSPI
- 2x I2C
- 2xCAN



Why OpenBoard-AM335x:

- Baseboard Schematic source file is Open for customization
- Baseboard Gerber/BOM is Open for Manufacturing
- Multiple OS support with Open FTP Downloads
- Full Product design support starts from Design phase to Manufacturing
- Community Support, Wiki , Tech Forum
- Software Compatibility with Beagle-Bone

Board Support Package

- Linux – 3.2.0
- Android –ICS
- Windows Embedded Compact 7
- QT

Packing:

- BaseBoard + SOM
- Software DVD
- Quick Reference Manual
- Power Adapter
- Ethernet
- Serial Cable
- OTG Cable

Optional

- RGB Lcd Adapter + LCD
- VGA Lcd Adapter
- WiFi/BT Module
- TTL to RS232 breakout board
- CAN Transceiver breakout

More Info:

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SOM FULL FEATURES

Processor

- Texas Instruments AM335x
- 720 MHz ARM® Cortex™-A8
- PowerVR™ SGX530 (AM3359, AM3358, AM3354)

Memory

- 512 MB DDR3, 1 GB NAND, 8 MB SPI Flash,
- 32 KB EEPROM

Serial

- 6x UARTs, 3x I2C, 2x McASP, 2x SPI, 2x CAN

USB/Network

- 2x HS USB OTG
- 1x 10/100/1G Ethernet

Multimedia

- Audio

Display

- 24 bpp TTL or LVDS
- Touch

Misc

- RTC, PRU, GPIO, JTAG

Operating Systems - Kit Availability

- Linux – 3.2.0
- Android – ICS
- Windows Embedded Compact 7



phyCORE-AM335x SOM

phyCORE-AM335x Product Highlights:

- // Low cost, feature-packed ARM® Cortex™-A8 based System on Module (SOM)
- // Tiny form factor: 44 x 50 mm
- // Gbit Ethernet & 10/100Mbps, High Speed USB, and CAN
- // Industrial Communications Subsystem
- // Linux, Android, and Windows Compact 7 BSPs - free source code

PHYTEC SOMs are designed to accelerate product development for the OEM requiring a high-quality, high-reliability, and long product life-cycle solution, within short development timeline constraints.

The phyCORE-AM335x SOM supports the Texas Instruments AM335x family of processors which feature high processing performance, low power, and a highly integrated peripheral set. The Industrial Communications Subsystem supports standards Such as EtherCAT®, Ethernet/IP, PROFINET®, PROFIBUS®, POWERLINK™, SERCOS-III, and CANopen®. This integrated subsystem eliminates the need for an external ASIC/FPGA, which saves substantial BOM costs

The combination of industrial temperature rating, 3.3V I/O, and highly reliable interconnects make it possible for developers to create products that can endure rugged and extreme thermal industrial environments such as industrial automation and control, human machine interface, interactive point-of-service kiosks, Portable Data Terminals and more.

Applications

