





The MinnowBoard is an Intel® Atom™ processor based board which introduces Intel® Architecture to the small and low cost embedded market for the developer and maker community. It has exceptional performance, flexibility, openness and standards.

## Performance

- Intel® Atom™ CPU with Hyper-Threading and Virtualization Technology
- Integrated Intel® Graphics Media Accelerator (GMA) 600
- Generous I/O
  - PCI Express
  - SATA2 3Gb/sec
  - Gigabit Ethernet
  - SDIO

UEFI firmware with Fast Boot

## Flexibility

- Affordable Intel® Atom™ Platform
- Scales up to Higher Workloads
- Small Form Factor
- Extensive Firmware Capabilities
- Expandability via MinnowBoard Lures

## Openness

- Open Source Hardware Platform
- Customizations possible without signing NDAs
- Open Source Ångström Linux Distribution
- Open Source MinnowBoard Lure Designs

## Standards

- x86 compatibility
- PCI Express, SATA, USB – PC Architecture Standards
- SPI, I2C, CAN, GPIO – Embedded System Standards
- Ångström Linux Distribution (Yocto Project Compatible)
- UEFI firmware
- ACPI 5.0

## Technical Features

Processor	Intel® Atom™ E640 (1GHz, 32 bit) EG20T Intel® Platform Controller Hub Integrated Intel® Graphics Media Accelerator (GMA) 600
System Memory	1 GB DDR2 RAM
System Firmware Memory	4 MB SPI Flash
Video	DVI via HDMI
Audio	Analog
I/O	1 micro SD SATA2 3Gb/sec 2 USB Hosts 1 USB Device (micro USB-B port) 1 Debug Serial to USB conversion (mini USB-B port) 10/100/1000 Ethernet
Experimenter Features	8 Buffered GPIO pins 2 Experimenter GPIO controlled LEDs 4 Experimenter GPIO switches System Firmware Flash Programming header (Dedi-Prog compatible)
Software	All software will be provided in image and Open Source form
System Operating System	Ångström Linux Distribution (Yocto Project v1.3 Compatible)
System Boot Firmware	UEFI Firmware with Fast Boot capability

**Coming Spring 2013**

Visit [minnowboard.org](http://minnowboard.org) to be kept up to date on the production release.

Features may change without notice. Last updated on 04/17/13 at 09:15 AM.