# Industry First X86-based Single Board Computer JaguarBoard Released

HongKong, China (May 12th, 2015) Jaguar Electronic HK Co., Ltd officially launched the first X86-based single board computer called JaguarBoard. Based on X86 architecture, JaguarBoard is designed for optimum performance on system scalability and compatibility. It affords embedded system engineers and DIYers enhanced experience with software development and significantly simplifies their development tool kits. Moreover, JaguarBoard allows geeks who are experienced with X86 architecture systems to enjoy the single board computer software development without having to learn embedded systems such as ARM.
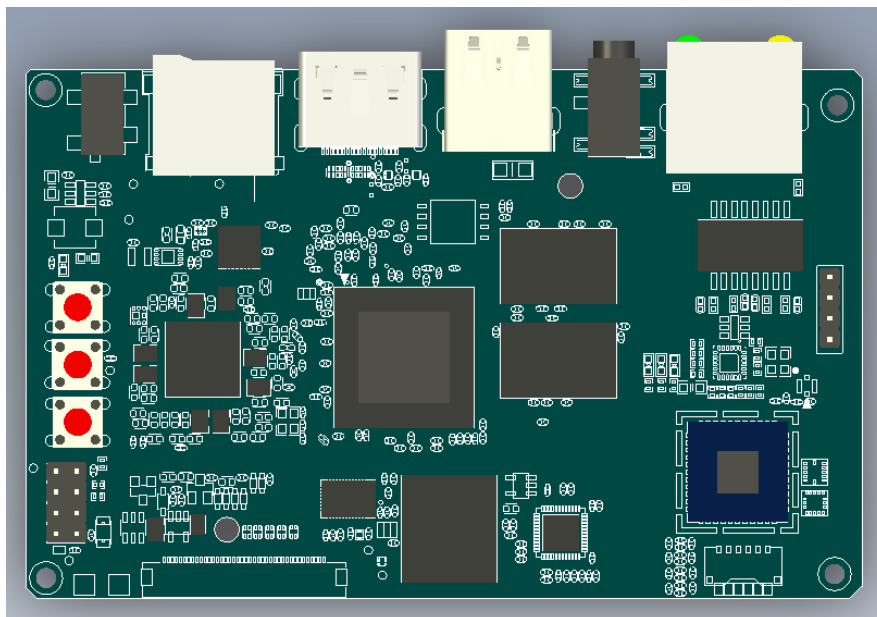
With a dimension of 101.9mm*64.5mm*1.6mm, JaguarBoard uses the high-performance CPU of Intel Atom Z3735G 4 and integrates a variety of interfaces. JaguarBoard allows more options for operating systems. In the same way as installing Ubuntu or Windows on PCs with a USB flash drive, you can install Ubuntu-14.10-desktop-amd64 or Windows 8.1or any other

OS you choose on the JaguarBoard. JaguarBoard also provides higher memory power. In addition to the 16GB onboard memory, it also allows users to expand its memory capacity with a TF card or USB device!

JaguarBoard Functions
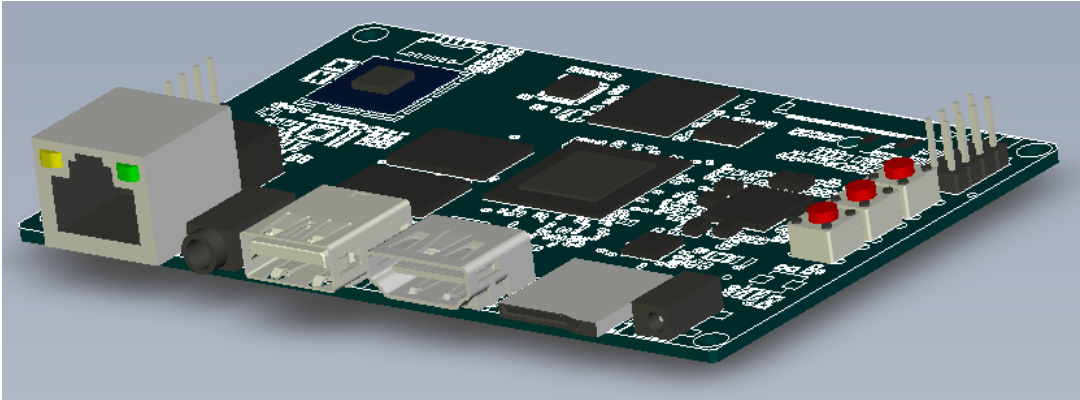
JaguarBoard Specification	
Dimension	101.9mm*64.5mm*1.6mm
CPU Model	Intel Atom Z3735G
Memory	1GB
Memory Chip	Onboard 16GB eMMC flash
Operating Systems	Linux/Android/windows
Starting Mode	USB/eMMC flash
Power On/Off	One-touch switch
Power Supply	5V/2A
HDMI	1（V1.4，1080P HD digital output）
Network Interface	1（10M/100M）

USB	1（2.0）
TF Socket	1
Audio	1(MIC,PHONE integrated interface)
Volume Control Buttons	2
COM Ports	2

Compared with Similar Products			
Product name	JaguarBoard	Raspberry Pi 2 Model B	CubieBoard 2
CPU	Intel Atom Z3735G X86	BCM2836 ARM Cortex-A7	Allwinner A20 ARM Cortext-A7
Memory	1GB DDR3	1GB DDR3	1GB DDR3
Onboard flash	16GB eMMC	NO	4GB Nand Flash
TF Support	YES	YES	YES

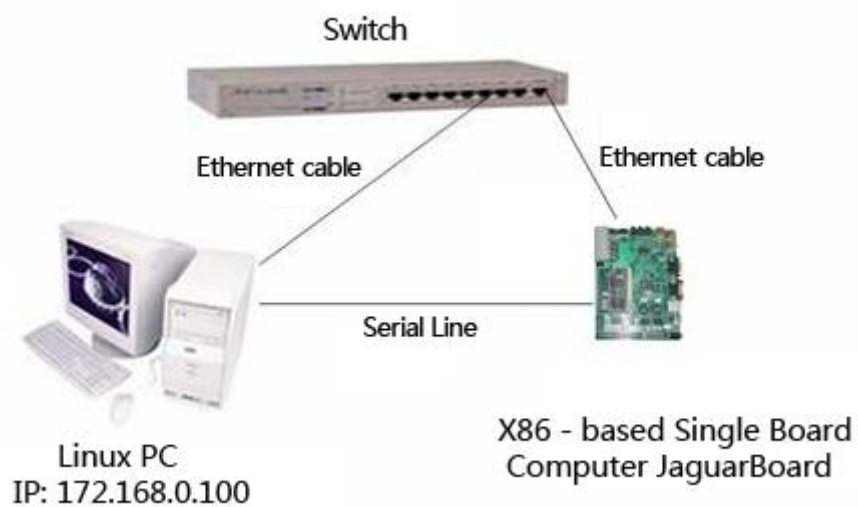| CPU Features			
CPU	Intel Atom Z3735G	BCM2836	Allwinner A20
CPU Clock Speed	1.33GHZ (up to 1.83GHZ)	900MHZ	1.2GHZ
Number of Cores	Quad-core	Quad-core	Dual-core
Number of Threads	Four Threads	Four Threads	Two Threads
Manufacturing Technology	22nm	55nm	55nm

CPU Cache	2MB L3 Cache	512KB L2 Cache	256KB L2 Cache
64-bit Processor	YES	NO	NO
Integrated Graphics	YES	YES	YES
Instruction Set	CISC	RISC	RISC

JaguarBoard Applications

As a mini pc

Users can easily change JaguarBoard into a Windows 8.1computer by connecting it to an

HDMI displayer or HDMI TV. There is no difference between using a JaguarBoard and using a

conventional PC or laptop. With such a small size, JaguarBoard takes up very little space thus

is truly portable. You also can DIY JaguarBoard into a HTPC (home theater PC) to bring you a

new entertainment experience!

As an embedded system

Switch

Ethernet cable   Ethernet cable

Serial Line

Linux PC
IP: 172.168.0.100

X86 - based Single Board
Computer JaguarBoard

Due to its small size, JaguarBoard is a perfect choice for embedded development. All you

need to do is to connect JaguarBoard to appropriate external devices and you can easily change JaguarBoard to anything you want it to be, from a Mini Linux networking server to a temperature and humidity monitoring system. You can even build your own smart home!

Compared with other single board computers based on the ARM architecture, JaguarBoard offers more processing power, larger storage, better performance, broader compatibility, and best value. With JaguarBoard, you are only limited by your own imagination!

For students or researchers

JaguarBoard is a low-cost choice for students and researchers to learn and practice programming. It can be used as an application development platform, and supporting application development for various systems such as Linux, Windows, and Android.

Target Customers

- Embedded System Engineer
- Embedded Application Engineer
- Embedded Hardware Development Engineer
- Beginners of embedded development

- Hobby developers for Android / Linux / windows platform

- DIYers

- Embedded Training Institution

- Colleges, Universities and Research Institution