



# GadgetPC

Ultra-low power computer



GadgetPC is a **tiny, ultra low-power, high performance** computer system based on the latest generation of ATMEL ARM9 micro-controllers. Taking advantage of low-cost, **off-the-shelf USB gadgets** such as webcams, USB drives, network cards, Aircards, Zigbee, Bluetooth, USB hard drives and many others, GadgetPC opens the path to the next generation of computing and embedded applications, especially **mobile robotics** applications, that would normally be difficult, if not impossible, to implement with power-hungry, bulky, expensive PC systems.

GadgetPC has an open architecture with **standard software** components. It can run high-level operating systems such as **Linux**. Power consumption of the base board is **well under 1 Watt**, eliminating the need for heat sinks and fans that are normally found on PC motherboards.

GadgetPC comes with **pre-installed Linux** and runs many standard applications such as the **Web Server, FTP Server, Telnet Server, OpenSSH, Firewall, Router, Network Time Server, Email, Fax Server** and many others. In a world of soaring energy and IT costs, GadgetPC is the perfect PC replacement for light-weight server applications and embedded systems.

GadgetPC is fully backed by warranty, technical support and application assistance from BiPOM Electronics.

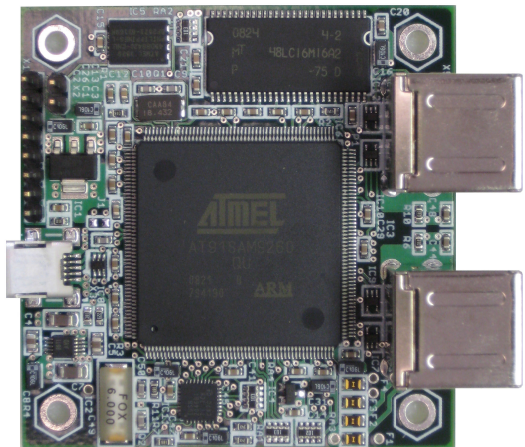
## GadgetPC Board Features:

### Hardware:

- ATMEL AT91SAM9260 (ARM9) micro-controller, 200 MHz Clock
- 8 MB Flash program memory, 32 MB RAM
- 4 USB Host ports, 1 USB Device port
- On-board Full Speed USB Hub
- 3.3V CMOS Serial UART
- Powers with 5 Volts through industry standard Mini USB
- Tiny board, fits in the palm of a hand

### Software:

- Pre-installed Linux
- Wide range of pre-configured applications
- Easy software upgrades through USB drive, ethernet or serial port
- Open system architecture
- Online Technical Manual, Quick Start Guide, Utilities



Actual size shown

### Options:

- USB Ethernet
- USB Flash Drive
- USB/RS232 Converter
- RS232 Converter/Cable
- Mini USB Power Supply
- Mini USB Battery Pack
- Mini USB Car Charger
- GPRS/Edge Aircard
- USB Audio
- Webcam
- Zigbee
- Wi-Fi
- Enclosure



	GadgetPC	Regular PC
<b>Base Price</b>	\$	\$\$
<b>Electricity ( 3 years )</b>	30 KWh	1560 KWh
<b>Setup Time</b>	15 minutes	2 hours
<b>Boot Time</b>	< 40 seconds	> 60 seconds
<b>Security</b>	High	Moderate
<b>Up Time</b>	High	Moderate
<b>Total Cost of Ownership</b>	\$	\$\$\$

More details and Technical Manual are available for download at <http://www.bipom.com/gadgetpc.php>  
BiPOM Electronics • Phone: 1-713-283-9970 • Fax: 1-281-416-2806 • E-mail: [info@bipom.com](mailto:info@bipom.com)

[www.bipom.com](http://www.bipom.com)



# GadgetPC Development Kit

GadgetPC Development Kit greatly simplifies getting started with GadgetPC. The kit includes:

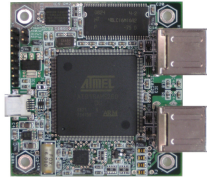
Preinstalled Linux



USB Flash Drive



GadgetPC Board



RS232 COM Port Adapter



USB Cable



D-Link DUB-E100 USB Ethernet Adapter



## USB Peripherals



D-Link DUB-E100 USB 2.0 10/100 Ethernet Adapter



USB/RS232 Converter



D-Link Wireless G USB Adapter



USB Flash Drive



USB Webcam



USB Zigbee



USB Hard Drive



USB Aircard

Example Application  
Remote Monitoring Gateway →

### Other Applications

- Witness Camera
- Digital video Recorder
- Firewall/Router
- Internet Webcam
- GPRS Webcam
- Robotics Controller
- Secure Shell (SSH) Server
- Email/File Server
- Web Server

