

Linux Watch [feedback](#)



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Linux on a Wrist Watch 1998-2001

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August 2000. IBM researchers are successfully running Linux and X11 (a popular graphics library) on a device as small as a watch, demonstrating the viability of the operating system across all platforms, from large enterprise servers to small servers, workstations, desktop systems, laptops and now the smallest intelligent devices.

With Linux rapidly becoming an industry standard, it's important that developers be able to create new applications including pervasive devices, and the intent of IBM's research is to further that work.

Designed to communicate wirelessly with PCs, cell phones and other wireless-enabled devices, the watch will display condensed email messages and directly receive pager like messages. In addition, the watch will provide user address book and to-do list functions. Future enhancements will include a high-resolution screen and applications that can be used as an access device for various Internet based services such as up to the minute information about world stock market, sports results and so on.

The watch contains a powerful processor along with eight megabytes of flash memory and another eight megabytes of access memory. Users interact with the watch through a combination of a touch-sensitive screen and a roller wheel. It has both IR and RF wireless connectivity.

Among the technologies IBM is developing for small pervasive devices are packaging, displays, processors, power systems, wireless protocols, user interfaces, privacy models, middleware, and applications. Other devices using these technologies include PDAs, smart identification badges, and other wearable devices.

Several benefits accrue from the use of Linux in small pervasive devices. The availability of source code and a rich application programming environment makes it easy for students, researchers, and software companies to develop applications.

Here is a video clip

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Features:

- Linux operating system version 2.2
- X11 R6 Graphics
- Size
- Watch: 56 mm wide by 48 mm long by 12.25 mm thick (2.20" x 1.89" x 0.48")
- Motherboard: 27.5 mm wide by 35.3 mm long (1.08" x 1.39")
 - 6 layers of wiring and 2 layers of power
 - Direct chip attach
- Weight: 44 gms (approx. 1.5 ounces)
- Cirrus Logic EP7211 CPU
- 8MB Flash memory, 8MB DRAM memory

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- IrDA, Radio Frequency wireless connectivity (900MHz Aug 2000, Bluetooth Dec 2000)
- 200mwh rechargeable lithum polymer batter

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