

# SitePlayer™ SPK1 Web Server Coprocessor Developer Kit

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- Development board for SitePlayer SP1 module, the one square inch web server coprocessor
  - Single SitePlayer SP1 module included
  - Web pages created using standard HTML authoring tools (not included)
  - Downloads web pages and firmware upgrades to SitePlayer over Ethernet
  - On-board electronics for using SitePlayer's I/O capabilities. Includes LEDs and switches.
  - RJ45 with integrated magnetics for connection to 10baseT hub or 10/100 switch
  - DB9 connector interfaces SitePlayer to PC or to device processor
  - Serial data selectable for direct connection to device UART or inverted for PC
  - Serial, Ethernet Cable, and Wall Transformer included to make it ready right out of the box
  - ActiveX OCX included for serial communication to SitePlayer from your own PC programs
  - Real-world, sample applications with source code to experiment with SitePlayer
  - Documentation, example web pages, demos and SitePlayer tools
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## Description

The NetMedia SitePlayer SPK1 Developer Kit provides the platform, cables, and connectors you need to get started with the SitePlayer SP1 web server coprocessor. The SitePlayer SP1 is designed to easily and inexpensively web enable any microprocessor-based device. In approximately one square inch, the SitePlayer SP1 includes a web server, 10baseT Ethernet controller, flash web page memory, graphical object processor, and a serial device interface.

The SPK1 Developer Kit includes the SitePlayer developer board, the SitePlayer SP1 module, a serial cable, an Ethernet cable, and a 12V DC power supply. The developer board includes the following on-board devices: power connector; DB9 serial connector; RJ45 Ethernet connector; 3 user LEDs; 1 Ethernet link light LED; 2 user switches; 1 reset switch; various pins and jumpers to simplify testing and development. Connect the RJ45 to an Ethernet Hub using the included Ethernet cable, or plug directly into a PC with a crossover cable. Use the serial cable to connect the DB9 to a PC's COMM port and find or set SitePlayer's IP address. The PC serial connection also allows you to simulate device activity and view it on the web immediately. Using the on-board DB9 or serial port header pins, the SPK1 can be configured for communication with either UARTs or RS232 devices.

Software and examples are available by free download or for purchase on CD from SitePlayer.com. The software includes SiteLinker™, SitePlayerPC™, and other tools to aid in development. SiteLinker allows you to download web sites or firmware upgrades into SitePlayer. It also creates data objects for communications between the device processor and SitePlayer. SitePlayerPC simulates the SitePlayer SP1 module on your Windows PC. Complete with simulation of serial port commands through the PC COMM port, it performs all SitePlayer functions and transforms your PC into a SitePlayer web server. Additional tools include the Serial Test and UDP Send Test programs for manipulating and verifying SitePlayer's internal data so you can watch objects under real conditions. The SPcontrol.ocx is also included for use in your own programs to simplify serial PC to SitePlayer communications.

The SPK1 Developer Kit is perfect for the classroom and multi-person development environments. It includes everything necessary for the novice or student to easily control I/O over Ethernet, yet it is powerful and flexible enough for engineers to independently create and test new applications. Using either the developer board or SitePlayerPC, one designer can fully test graphics and web layout while another fine-tunes processor communication through the serial port.

**NOTE:** For availability, warranty, and use in critical applications please see [www.siteplayer.com/notices](http://www.siteplayer.com/notices)