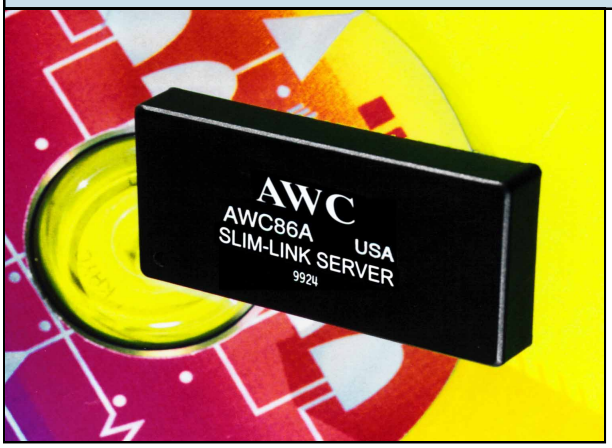
Hardware and Software Design Tools for Slim-Link® Server



Description

The Advanced Web Communication™ division of Xecom offers development kits for the Slim-Link® Server web-enabled, embedded micro-controller to accelerate the design process. Separate kits are available for the AWC86 and AWC86A. These development kits allow quick adaptation of the Slim-Link® Server into a process control application.

The contents of each of the Slim-Link® Server development kit are listed in the right-hand column. Additional development tools are also available. Source Code Licenses are available for the MicroRTOS™ multi-user real-time operating system, TCP/IP Stack and HTTP server. The Slim-Link® Server development board will also accept Xecom's XE1414B, XE3314B or XE5614 modem to incorporate dial-up access. The modem module must be ordered separately from the Slim-Link® Server Development Kit.

The Slim-Link® Server Development Kits include the hex format code required to exercise the embedded demo programs and develop application code which uses the MicroRTOS™ operating system. Source code is included for the demonstration web site to permit easy adaptation to your application. Source code is available for the other software functions. Contact Advanced Web Communication Division of Xecom or your Xecom sales representative for licensing details

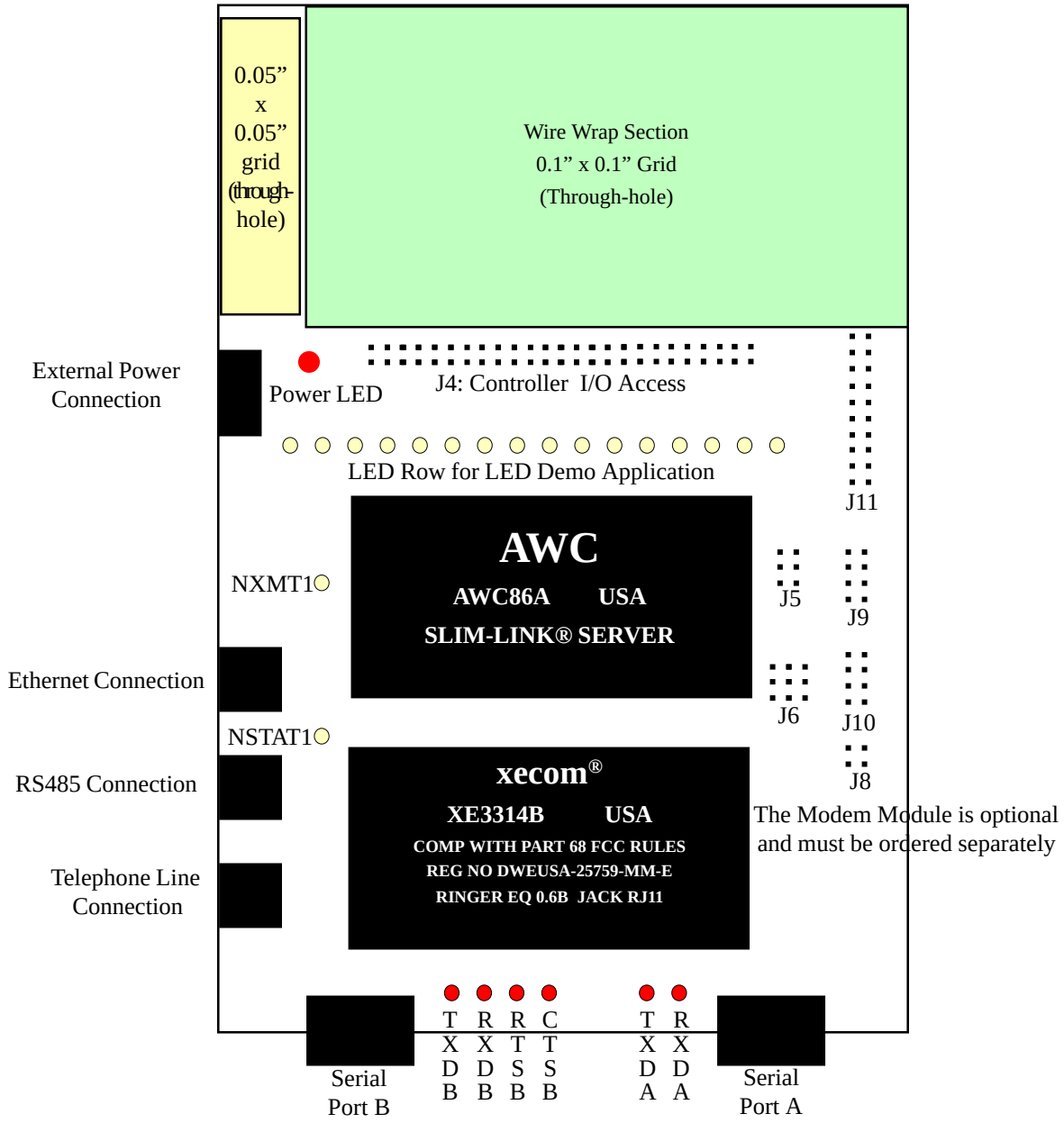
AWC86DK Development Kit for AWC86

Hardware	AWC86 Module
	AWC86DB Development Board; 5 inches by 9 inches.
	Wall Mount Supply provides ± 12 Volts and 5 Volt Power
	10Base-T Ethernet Cable
	9-Pin RS232 Cable
Software	MicroRTOS™ - Real-Time Operating System (Hex format) includes TCP/IP Stack, RTOS Kernel, Ethernet Protocol, Embedded Web Server, local console interfaces and the Micro-Controller Interface.
	Demonstration Web Site - HTML files in both downloadable Hex format and source code. Also includes source code for JPG, WAV MIDI files and CGI programs
Manuals	Slim-Link® Server Development Kit Users Manual

AWC86ADK Development Kit for AWC86A

Hardware	AWC86A Module
	AWC86ADB Development Board; 5 inches by 9 inches.
	Wall Mount Supply provides ± 12 Volts and 5 Volt Power
	10Base-T Ethernet Cable
	9-Pin RS232 Cable
Software	MicroRTOS™ - Real-Time Operating System (Hex format) includes TCP/IP Stack, RTOS Kernel, Ethernet Protocol, Embedded Web Server, local console interfaces and the Micro-Controller Interface.
	Demonstration Web Site - HTML files in both downloadable Hex format and source code. Also includes source code for JPG, WAV MIDI files and CGI programs
Manuals	Slim-Link® Server Development Kit Users Manual

Slim-Link® Server Development Board



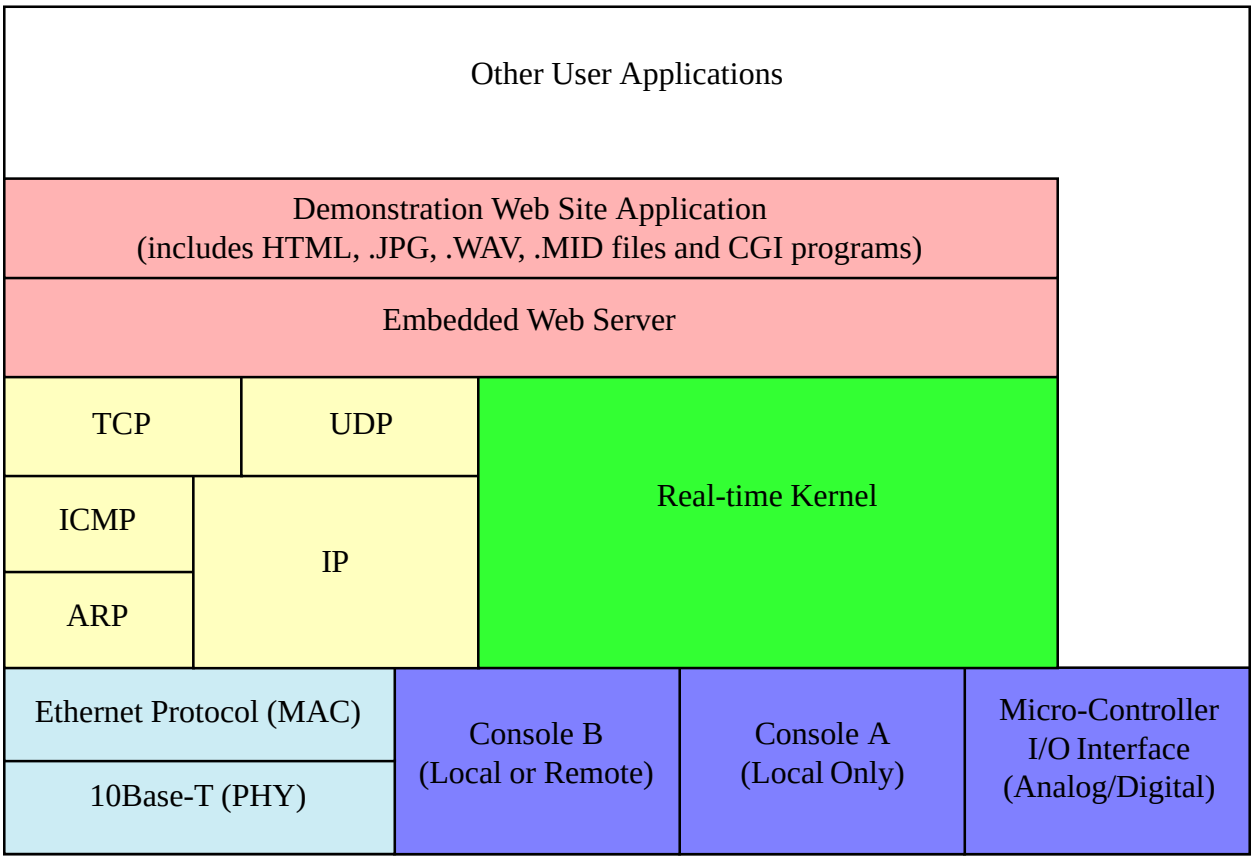
Note: Consult with the Slim-Link® Server Development Kit Users Guide for the proper settings of J5, J6, J8, J9, J10 and J11.

MicroRTOS Architecture Diagram

The diagram below illustrates the architecture of Advanced Web Communiction's Embedded Real-time Operating System. MicroRTOS ties together five basic building blocks; Web Server, TCP/IP Stack, Real-time Kernel, Ethernet Interface, System Interfaces. The inclusion of these five functions permits the Slim-Link® Server to provide a complete Controller and Web Server in one small package.

Web Server:	Provides the server for the HTTP which supplies web pages to multiple users
TCP/IP Stack:	Provides the necessary protocols to support Internet communications
Real-time Kernel:	Manages multiple tasks in real time with Preemptive Scheduler
Ethernet Interface:	Provides the protocols to support 10Base-T access
System Interfaces:	Manages multiple users and multiple I/O's

MicroRTOS Real-Time Operating System Architecture



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A Critical Component is any component of a life support device or system whose failure to perform can be reasonably expected to cause failure of the life support device or system, or to affect its safety or effectiveness.

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