

WS128 Amber Micro Web Server
WS168 AmberM Micro Web Server

Features

- Atmel AVR Atmega128 14.756MHz processor
- 128Kbytes Flash
- 128Kx8 to 8Mx8 of SPI Flash
- 4K SRAM on chip
- 2K EEPROM
- 32Kbytes SRAM
- 10BaseT Ethernet Port
- RS-232 and RS-485 Ports
- 8 10 bit A/D Channels
- 32 Bidirectional I/O ports
- ISP Programming Port
- Extensive Source code examples
- Open source TCP/IP stack, Web Server
- 9-12VDC power input (5VDC board)

Overview

The Amber/AmberM Micro Web Servers are general purpose, small form factor, microcontrollers with 128K on chip Flash, 128Kx8 to 8Mx8 of external SPI Flash, 8 10bit A/D channels, 2 serial ports (RS-232 and RS-485), 32 digital IO, 2-Wire port, SPI port and 10BaseT Ethernet port. The WS128 is available with optional sensors (temperature and light sensors, Dual Axis 2G accelerometer). Each board comes with extensive open source software support including a GNU C compiler, open source OS and an open source TCP/IP stack. The 10BaseT Ethernet interface provides IP interfacing to the desktop for high speed program downloading, communication and general web application development. The WS128 is an excellent platform for industrial control, dedicated web server, hobbyist and robotic control applications. The WS168 targets OEM applications.

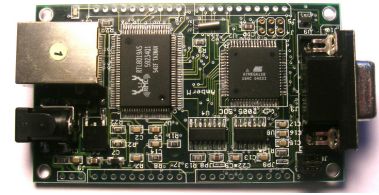
Software Tools

A comprehensive set of open source development tools is available for application development. A Windows or Linux GNU C compiler provides high level application development while an assembler/simulator enables assembly development and programming.. Extensive technical documentation and source code is available including detailed chip operation/management and application programs.

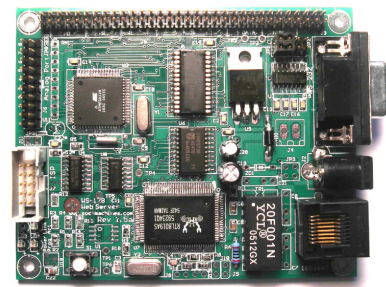
Ordering Information

The **WS128/WS168** are available as bare boards or as a Hardware Development Kit (HDK):

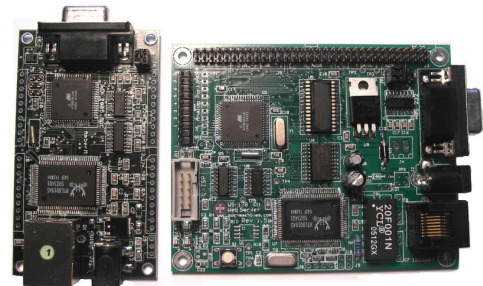
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Amber and AmberM size comparison

The AmberM's compact form factor makes it ideal for OEM embedded production applications. The Amber and AmberM are software compatible – code developed on one will run unmodified on the other. The Amber is limited to 128Kx8 of Serial Flash while the AmberM can be expanded to 8Mx8 of Flash.

You may order directly from SOC Machines by placing an order on the web site: www.soc-machines.com, calling (604) 628-7227 or by contacting one of our sales representatives or distributors.