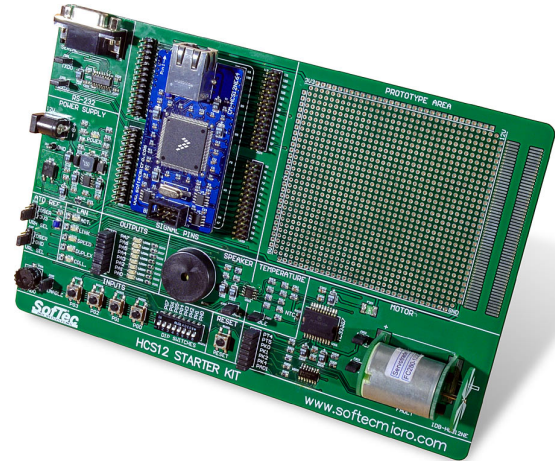


# AK-S12NE64-A

## Starter Kit for Freescale MC9S12NE64



The AK-S12NE64-A Starter Kit is an integrated system designed to provide the user with a complete, ready-to-use embedded Ethernet application. The Starter Kit is built around the Freescale MC9S12NE64 microcontroller, which has a built-in, dedicated Ethernet peripheral. The Starter Kit demonstrates how effectively the MC9S12NE family of microcontrollers can be used in real-world embedded Ethernet applications.

The Starter Kit is composed of:

- A general purpose evaluation board (including LEDs, a DC motor, a temperature sensor, a buzzer, a serial connector, a potentiometer, DIP-switches and push-buttons);
- A "Core Module" board (including the MC9S12NE64 microcontroller, external FLASH and EEPROM memory, an Ethernet connector and a BDM connector);
- Software (including free source code of the TCP/IP stack).

The Starter Kit can be used in two ways:

- **For demonstration purposes.** The Starter Kit works as a web server. Connect the board to your local network and use a standard browser to access HTML pages. A JAVA applet is provided which allows the board to be controlled through a browser. With the provided software utilities you can upload your own HTML pages, images, etc. and access them through any PC in your LAN.
- **For user application development.** A complete, integrated development environment is provided, which allows you to write your own software, download it to the MC9S12NE64 microcontroller and debug it. Downloading and debugging your application is possible through a serial monitor pre-programmed in the microcontroller. The Starter Kit includes full source codes of the TCP/IP protocol together with full documentation for an easy porting to your custom application.



Development Tools  
for the Embedded World



### Starter Kit Features

- 112-pin LQFP MC9S12NE64 microcontroller;
- 10/100 BaseT integrated RJ45 Ethernet connector;
- 25 MHz crystal oscillator;
- 8 Mbit (1 MByte x 8) serial FLASH memory;
- 4 Kbit (512 Bytes x 8) serial EEPROM;
- BDM connector for in-circuit debugging;
- Header connectors with all microcontroller signals;
- RS-232 connector with transceiver;
- Eight user LEDs;
- LAN status LEDs;
- Piezoelectric speaker;
- NTC temperature sensor;
- 12 V DC motor with MC33887 H-bridge driver;
- One potentiometer for analog input;
- Four push-buttons and eight DIP-switches;
- Reset supervisor circuitry with push-button;
- Prototype area.

### Starter Kit Package Contents

The AK-S12NE64-A package includes the following items:

- A general-purpose evaluation board base;
- An Ethernet core module;
- An AC adapter;
- An Ethernet cross cable and a serial cable;
- The SofTec Microsystems AK-S12NE64-A "System Software" CD-ROM;
- The Metrowerks CodeWarrior for HC(S)12 CD-ROM;
- Printed user's manual.

### Order Code

AK-S12NE64-A, \$449

More information and online  
ordering at [www.softecmicro.com](http://www.softecmicro.com)