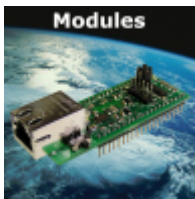




Technological Arts Inc.

Technological Arts

neCore12



[Modules](#)



[Accessories](#)

[Product Info](#)

Unfortunately, the 9S12NE64 microcontroller used on this product is no longer available, so this product is now discontinued.

neCore12™ is a low-cost family of DIP modules that brings the advanced features of the Freescale MC9S12NE series of "networked embeddable" microcontrollers within easy reach of engineers, students, and hobbyists. The flexible design accommodates all facets of training, evaluation, development, prototyping-- and even volume production.

Ethernet isn't just for offices anymore. Freescale Semiconductor's MC9S12NE64 single-chip, Flash-based Ethernet solution with an embedded 10/100 Ethernet media access controller (EMAC) and Ethernet physical layer (EPHY) meets the needs of design engineers working on applications such as networked appliances, security systems, industrial controls and Web radio.

The MC9S12NE64 is a 16-bit microcontroller that can be matched with a third-party TCP/IP stack of your choice to achieve a low-cost end-node Ethernet solution. The MC9S12NE64 is based on the powerful HCS12 core, which integrates third-generation Flash technology. Its rich offering of Ethernet connectivity features makes the MC9S12NE64 a favorite to replace noisy multichip solutions with full-featured Ethernet connectivity.

MC9S12NE64 Features:

- 25 MHz 16-bit HCS12 CPU core
- On-chip debug interface
- Integrated third-generation Flash memory

- 10/100 Mbps EMAC
- 10/100 Mbps EPHY
- 10-bit ADC
- Clock and reset module
- Timer
- Two serial communications interfaces
- Serial peripheral interface

Resources

- [neCore12 Module Data Sheet](#)
 - [neCore12 Brochure](#)
 - [neCore12 documents and files](#)
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- [9S12NE64 Fact Sheet](#)
 - [9S12NE64 Data Sheet](#)
 - [Freescale resource webpage for 9S12NE64](#)
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- [uBug12 multi-platform GUI for working with the on-chip Serial Monitor](#)
 - [Linux command line tool **hc12mem** for working with the Serial Monitor](#)
 - [CodeWarrior Special Edition C compiler for Windows](#) from Freescale
 - [C compiler for Windows](#) from ImageCraft
 - [Eric Engler's AsmIDE](#)
 - [Using the GNU Development Tools for 68HC11 and 68HC12](#)
 - [Mark Butcher's free 9S12NE64 Simulator for Windows](#)
-
- [uTasker Operating System and TCP/IP stack \(free for non-commercial use\)](#)
 - [Mark Butcher's uTasker - an Operating System + TCP/IP stack with drivers for 9S12NE64](#)
 - [Implementing uIP on neCore12](#)
 - [zipfile of the **uip** TCP/IP stack files for NE64](#)
 - [uip Reference Manual](#)
 - [OpenTCP stack can be found at http://sourceforge.net/projects/freescaleotcp/](http://sourceforge.net/projects/freescaleotcp/)
 - [Tips for porting OpenTCP to ICC12 and noICE12](#)
 - [Introduction to TCP/IP Networking](#)



neCore12 Embedded Ethernet MCU Module, 64K
USD \$99.00

9S12NE64 DIP module [\[Product Details...\]](#)



neCore12 School Board
USD \$29.00

Development and training platform for neCore12 embedded Ethernet modules. [\[Product Details...\]](#)

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