

Ethernut Starter Kit

Description

Ethernut™ is a small (80 x 100 mm) board combining Atmel's ATmega128 RISC Microcontroller with Realtek's RTL8019AS Ethernet Controller. The board is well suited for a wide range of Internet enabled applications. It is ready to be plugged into a 10BaseT Ethernet network.

Features

Hardware

- ATmega 128 RISC Microcontroller.
- Full duplex IEEE 802.3 compliant Ethernet controller with on-board RJ-45 connector for twisted pair networks.
- RS-232 serial port with on-board DB-9 connector for debugging or application usage.
- 128 Kbyte in-system programmable flash ROM, 4 Kbyte in-system programmable EEPROM and 32 Kbyte SRAM.
- 22 programmable digital I/O lines and 8-channel, 10-bit analog/digital converter.
- Watchdog timer and reset controller for enhanced reliability.
- LED indicators for power supply, programming mode and Ethernet activity.
- Single power supply DC 9-15V or AC 7-12V.

Software

- Nut/OS Real-Time Operating System supports cooperative multithreading, dynamic heap management, event handling, timer management and simple ROM filesystem.
- Nut/Net TCP/IP Protocol Stack provides ICMP, ARP, IP, UDP, TCP, DHCP, DNS and HTTP with basic CGI.
- Expandable device driver supports on-board serial and network I/O. Easy application via stream I/O and TCP/UDP socket interface.
- Several application examples for TCP/IP client/server communication including Telnet and Web Server.



Contents of the Kit

Hardware

- Multilayer Ethernut Board, assembled and tested with preloaded software sample.
- In-system programming adapter for the PC parallel printer port.
- DB-9 serial cable for the PC com port.
- Printed hardware manual including quick start guide.

Software

The included CDROM contains

- Complete C and assembly source code with BSD type licence. Royalty-free for open or closed source commercial or non-commercial application.
- GNU C Compiler Tools and ImageCraft AVR Demo for application development.
- Additional manuals including detailed API documentation.

Prerequisites for Operation

- A standard Linux or Windows PC equipped with a twisted pair Ethernet Adapter Card.
- Unregulated power supply with AC 7-12V or DC 9-15V, 100 mA minimum, on a standard 2.1 mm barrel connector.
- 100/10Base-T or 10Base-T network or a twisted pair cross cable.

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The list price of the Ethernut Starter Kit is **163,10 Euro incl. 16% VAT** plus shipping in countries within the EU. Companies providing their VAT REG NO are charged net prices. For other countries the price is **140,60 Euro** plus shipping. Because our distributors are independent, their prices may vary.